

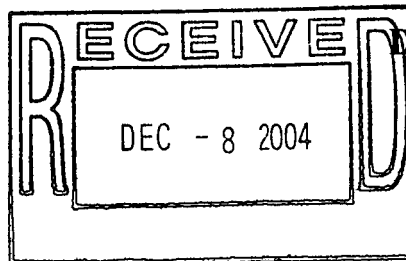
**Draft Closeout Report
IHSS Group 900-11**

**IHSS 900-155, 903 Lip Area
IHSS 900-140, Hazardous Disposal Area**

Approval received from the U.S. Environmental Protection Agency

().

Approval letter contained in the Administrative Record.



December 2004

ADMIN RECORD

BZ-A-000779

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ENCLOSURE

Complete Data Set Compact Disc – Accelerated Action Data

ACRONYMS

AAESE	Accelerated Action Ecological Screening Evaluation
AL	action level
ALARA	As Low As Reasonably Achievable
AR	Administrative Record
ASD	Analytical Services Division
BGS	below ground surface
BZ	Buffer Zone
BZSAP	Buffer Zone Sampling Analysis Plan
CAD/ROD	Corrective Action Decision/Record of Decision
CAS No.	Chemical Abstracts Service Registry Number
CD	compact disc
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cm ²	square centimeter
CMS/FS	Corrective Measures Study/Feasibility Study
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
DOE	U.S. Department of Energy
dpm	disintegrations per minute
DQA	Data Quality Assessment
DQO	Data quality objective
DRT	Dirt, rubble, and trash
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
ER RSOP	Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation
FY	Fiscal Year
HPGe	High Purity Germanium
HRR	Historical Release Report
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
IMP	Integrated Monitoring Program
K-H	Kaiser-Hill Company, L.L.C.
LCS	laboratory control sample
mg/kg	milligrams per kilogram
MS	matrix spike
MSD	matrix spike duplicate
NFAA	no further accelerated action
nCi/g	nanocuries per gram
NFAA	no further accelerated action
NLR	no longer representative
OPWL	Original Process Waste Lines
OU	Operable Unit

PAC	Potential Area of Concern
PARCCS	precision, accuracy, representativeness, completeness, comparability and sensitivity
pCi/g	picocuries per gram
QC	quality control
RAO	remedial action objective
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS or Site	Rocky Flats Environmental Technology Site
RFI/RI	RCRA Facility Investigation/Remedial Investigation
RIN	report identification number
RL	reporting limit
RPD	Relative Percent Difference
RSOP	RFCA Standard Operating Protocol
SAP	Sampling and Analysis Plan
SOR	sum of ratios
SSRS	Subsurface Soil Risk Screen
SWD	Soil Water Database
VOC	volatile organic compound
V&V	verification and validation
WRW	wildlife refuge worker

EXECUTIVE SUMMARY

This closeout report summarizes the accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 900-11, IHSS 900-155, the 903 Lip Area and IHSS 900-140, Hazardous Disposal Area, and two hot spots at Operable Unit (OU) 1 at the Rocky Flats Environmental Technology Site (RFETS or the Site) in Golden, Colorado.

This closeout report incorporates activities proposed in several decision documents. The accelerated action conducted at IHSS 900-155, the 903 Lip Area, is described in the following three documents:

- The Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (BZSAP) Addendum #BZ-04-01 (DOE 2003a) addressed the 903 Inner Lip Area sampling;
- The Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation Notification #03-07 (DOE 2003b) addressed remediation in the Inner Lip Area and part of the Outer Lip Area; and
- The 900-11 Interim Measure/Interim Remedial Action (IM/IRA) for IHSS Group 900-11 (903 Lip Area and Vicinity, the Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside]) (DOE 2004a) addressed accelerated actions in the 903 Outer Lip Area. The IM/IRA also included the proposed accelerated action for surface soil hot spots at OU 1.

In addition, IHSS 900-140, the Hazardous Disposal Area, which was proposed for no further accelerated action (NFAA) in 1998 and in 2003 (DOE 1998, 2003c), was also addressed in accordance with the IM/IRA (DOE 2004a). Potential Area of Concern (PAC) SE-1602, East Firing Range was characterized in accordance with BZSAP Addendum #BZ-04-11 (DOE 2003d) and accelerated actions were proposed in the IM/IRA. Accelerated action activities for PAC SE-1602 are described in a separate closeout report.

Waste releases at the 903 Pad (IHSS 900-112) are considered the primary source of radiological contamination in the surficial soil in this part of RFETS. Drums that contained hydraulic fluids and lathe coolant, contaminated with plutonium-239/240 and uranium, were stored at this location from summer 1958 to January 1967. Leaking drums were noted in 1964 during routine handling operations. The contents of the leaking drums were transferred to new drums, and the area was fenced to restrict access. When cleanup operations began in 1967, a total of 5,237 drums were at the 903 Pad.

From 1968 through 1970, radiologically contaminated material was removed from the 903 Pad and Lip Area. However, during drum removal and cleanup activities, wind and rain (stormwater erosion) spread plutonium-contaminated soil east and southeast from the 903 Pad area resulting in contamination of the 903 Lip Area. Several limited excavations previously removed some of the plutonium-contaminated soil (DOE 2003b).

Based on previous studies, the contaminants of concern (COCs) at IHSS 900-155 were radionuclides and, of specific concern, plutonium-239/240. Volatile organic compounds related to IHSS 900-155 are addressed in the groundwater IM/IRA. Specific accelerated action objectives for the Inner and Outer Lip Areas were based on the goal of removing contaminated soil with plutonium 239/240 activities greater than 50 picocuries per gram (pCi/g).

The accelerated action objectives for IHSS 900-155 were achieved by the following steps:

- Remove fill and dispose, as appropriate;
- Remove soil at IHSS 900-155, and OU1 and other hot spots, as necessary, to remove soil with contaminant concentrations greater than RFCA Wildlife Refuge Worker (WRW) ALs (50 pCi/g) (and as indicated by stewardship evaluations) or to 3 feet below the surface, and dispose, as appropriate, pending waste characterization; and
- Regrade and revegetate as necessary.

The action for IHSS 900-155, the 903 Lip Area, included the following steps:

- Excavated 36.5 acres in the 903 Lip Area;
- Removed 49,800 cubic yards (65,800 tons) of soil for disposal;
- Filled 3,452 intermodal waste containers with soil and shipped offsite for disposal;
- Filled 588 dirt, rubble, and trash (DRT) bags with soil and shipped offsite for disposal; and
- Collected confirmation samples in accordance with the BZSAP (DOE 2002a), BZSAP Addendum #BZ-04-01 (DOE 2003a), ER RSOP Notification #03-07 (DOE 2003b), and IM/IRA for IHSS Group 900-11 (DOE 2004a).

Based on the WRW ALs, RFCA sums of ratios (SORs) were calculated for IHSS Group 900-11 confirmation sampling locations from 0 to 3 feet. SOR calculations were based on accelerated action analytical data for the radionuclides of concern, and all SORs for radionuclides in surface soil from 0 to 3 feet were less than 1.

IHSS 900-140, Hazardous Disposal Area was used for the destruction and disposal of reactive metals and other chemicals. IHSS 900-140 was characterized for metals, specifically lithium. All metal concentrations in soil were less than WRW ALs. Additionally, radionuclides associated with surface soil were dispositioned as part of IHSS 900-155.

Results of the accelerated action justify NFAA. Justification is based on:

- Removal of soil with plutonium-239/240 activities greater than WRW ALs to a depth of 3 feet at IHSS 900-155;

- Confirmation sampling results less than WRW ALs;
- Results of the Subsurface Soil Risk Screen; and
- Results of the Stewardship Evaluation

The presence of residual radionuclides, metals, and volatile organic compounds in soil will be evaluated in the Sitewide Comprehensive Risk Assessment (CRA), which is part of the Facility Investigation/Remedial Investigation (RI/FS) that will be conducted for the Site. Potential ecological risk will be evaluated in the Accelerated Action Ecological Screening Evaluation (AAESE) and the ecological risk assessment portion of the CRA. The need for and extent of any more general, long-term stewardship activities will also be evaluated in the RI/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for the Site will ultimately be contained in the Corrective Action Decision/Record of Decision (CAD/ROD).

1.0 INTRODUCTION

This closeout report summarizes the accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 900-11, IHSS 900-155, 903 Lip Area and IHSS 900-140, Hazardous Disposal Area, and two hot spots at Operable Unit (OU) 1 at the Rocky Flats Environmental Technology Site (RFETS or the Site) in Golden, Colorado. These sites are shown on Figure 1.

This closeout report incorporates activities proposed in several decision documents. The accelerated action conducted at IHSS 900-155, the 903 Lip Area, is described in the following three documents:

- The Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (BZSAP) Addendum #BZ-04-01 (DOE 2003a) addressed the 903 Inner Lip Area sampling;
- The Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation Notification #03-07 (DOE 2003b) addressed remediation in the Inner Lip Area and part of the Outer Lip Area; and
- The 900-11 Interim Measure/Interim Remedial Action (IM/IRA) for IHSS Group 900-11 (903 Lip Area and Vicinity, the Windblown Area, and Surface Soil in Operable Unit (OU) 1 [881 Hillside]) (DOE 2004a) addressed accelerated actions in the 903 Outer Lip Area. The IM/IRA also included proposed accelerated action for surface soil hot spots at OU 1.

In addition, IHSS 900-140, the Hazardous Disposal Area, which was proposed for no further accelerated action (NFAA) in 1998 and in 2003 (DOE 1998, 2003c), was also addressed in accordance with the IM/IRA (DOE 2004a). Potential Area of Concern (PAC) SE-1602 – the East Firing Range was characterized in accordance with BZSAP Addendum #BZ-04-11 (DOE 2003d) and accelerated actions were proposed in the IM/IRA. Accelerated action activities for PAC SE-1602 are described in a separate closeout report.







IHSS 900-112, the 903 Pad, is also part of IHSS Group 900-11. The IHSS 900-112 accelerated action was described in the Closeout Report IHSS Group 900-11, IHSS 900-112, 903 Pad (Drum Storage Area) (DOE 2004b). Decision documents associated with each IHSS or PAC, including the action at the 903 Pad, are listed in Table 1.

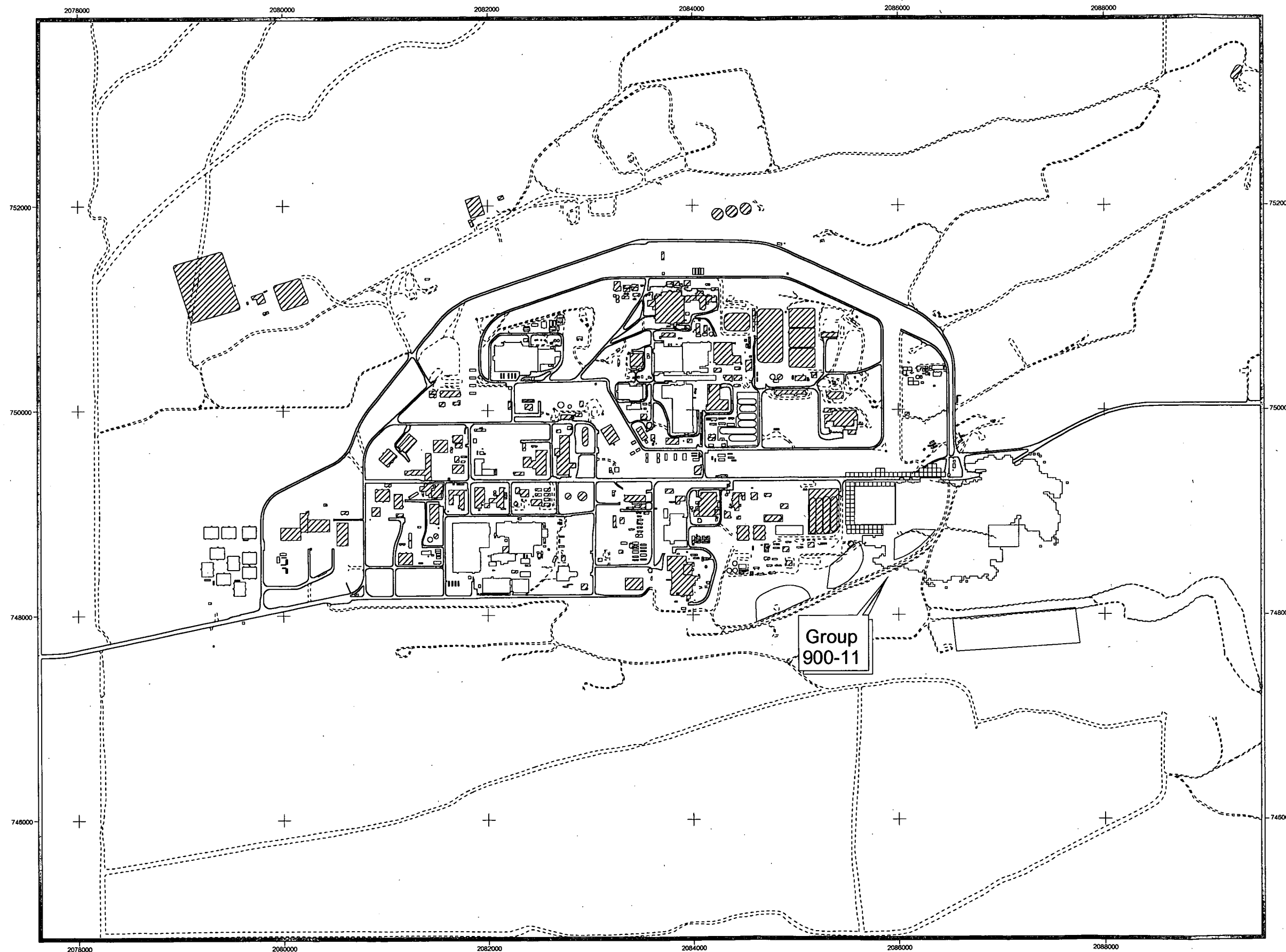
This report contains the information necessary to demonstrate achievement of cleanup objectives and closure of IHSS 900-140, IHSS 900-155, and surface soil in OU 1 including:

- Description of the accelerated action, including the rationale for the action and dates and durations of specific remedial activities;
- Map of the actual remediation area, including bounds of the excavation;

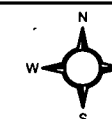
Figure 1
IHSS Group
900-11 Location

KEY

-  PAC
-  IHSS
-  Dirt road
-  Asphalt
-  Demolished building/structure
-  Standing building/structure



DRAFT



900 0 900 Feet

Scale = 1: 12000

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

U.S. Department of Energy
 Rocky Flats Environmental Technology Site

Prepared by:

Date: 11.20.04

RADMS

Prepared for:



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- Photographs documenting site characterization, remediation, and reclamation activities;
- Confirmation sampling data (as applicable), including data tables and location maps, as well as a comparison of the confirmation data to applicable cleanup goals;
- Description of Resource Conservation and Recovery Act (RCRA) unit closure activities (if applicable);
- Description of deviations from the decision documents;
- Description of the Subsurface Soil Risk Screen (SSRS);
- Description of near-term stewardship actions and long-term stewardship recommendations;
- Disposition of wastes;
- Site reclamation;
- Table of no longer representative (NLR) locations and sample numbers that have been remediated (as applicable). These data will be used to mark database records so they are not used in the Comprehensive Risk Assessment (CRA) or other Site analyses; and
- Data Quality Assessment (DQA).

Approval of this closeout report constitutes regulatory agency concurrence that IHSS 900-140, IHSS 900-155, and surface soil at OU 1 are NFAA sites. This information and NFAA determination will be documented in the Fiscal Year (FY) 2005 Historical Release Report (HRR).

2.0 IHSS 900-155, 903 LIP AREA

2.1 Site Characterization







IHSS 900-155, the 903 Lip Area, is shown on Figure 2. Characterization information consists of historical knowledge and accelerated action analytical data. IHSS 900-155 historical information and existing data derived from previous studies (DOE 1992-2003, 1999a, 1999b) are briefly described in the following section.

2.1.1 Historical Information

Waste releases at the 903 Pad (IHSS 900-112) are considered the primary source of radiological contamination in the surficial soil in this part of RFETS. Drums, that contained hydraulic fluids and lathe coolant contaminated with plutonium-239/240 and uranium, were stored at this location from summer 1958 to January 1967. Leaking drums were noted in 1964 during routine handling operations. The contents of the leaking

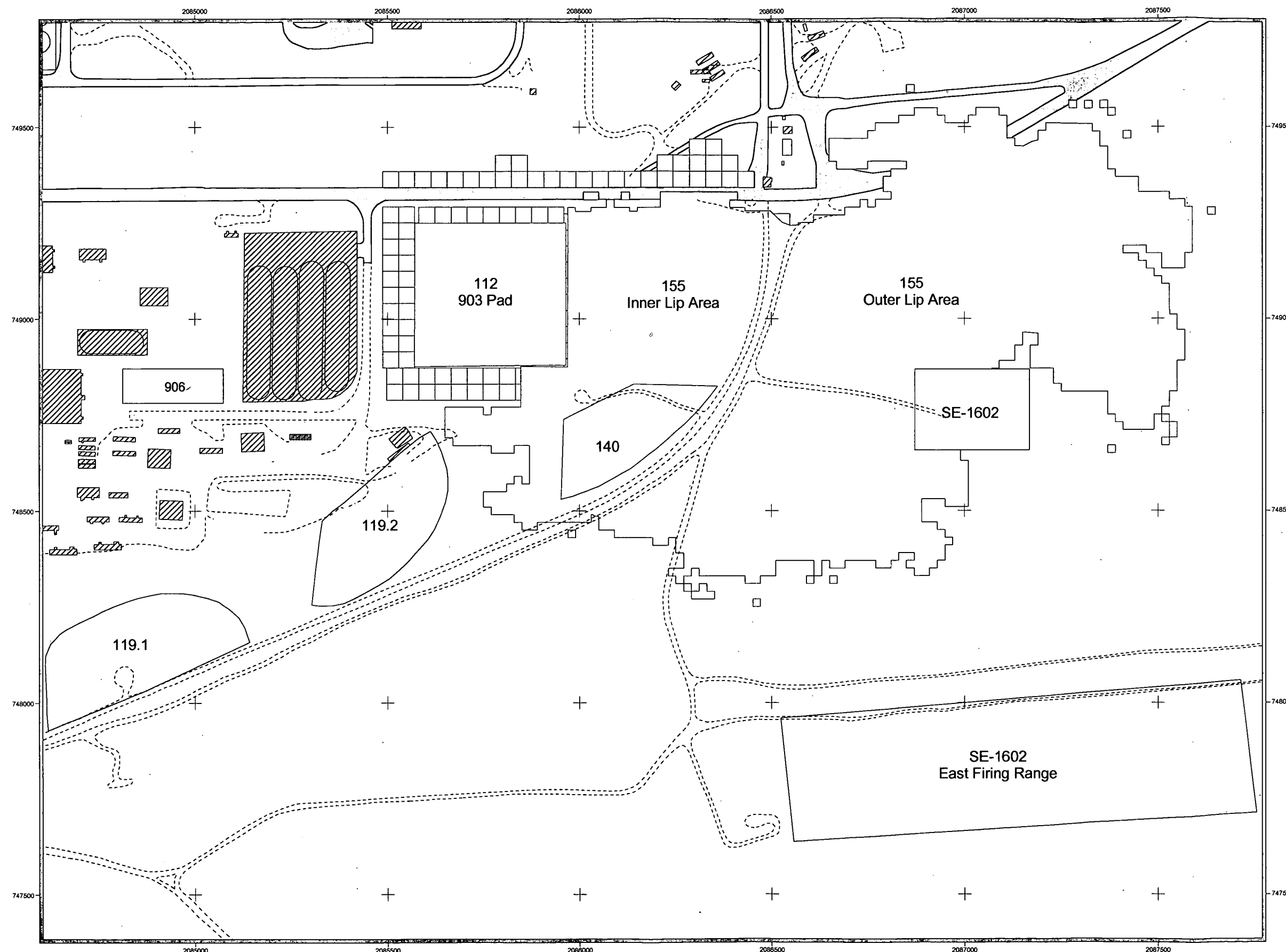
Figure 2
IHSS Group 900-11
Location

KEY

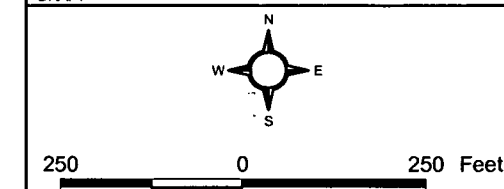
-  PAC
-  IHSS
-  Asphalt
-  Demolished building
-  Standing building
-  Dirt road

IHSSs 119.1 and 119.2 are part of Operable Unit 1.

IHSS 140 is the Hazardous Disposal Area.



DRAFT



Scale = 1: 3200

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

U.S. Department of Energy
 Rocky Flats Environmental Technology Site

Prepared by:

Date: 11.03.04
 RADMS

Prepared for:



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drums were transferred to new drums, and the area was fenced to restrict access. When cleanup operations began in 1967, a total of 5,237 drums were at the 903 Pad.

From 1968 through 1970, radiologically contaminated material was removed from the 903 Pad and Lip Area. However, during drum removal and cleanup activities, wind and rain (stormwater erosion) spread plutonium-contaminated soil east and southeast from the 903 Pad area resulting in contamination of the 903 Lip Area. Several limited excavations previously removed some of the plutonium-contaminated soil from the 903 Lip Area (DOE 1995, Barker 1982). However, results from the OU 2 Phase II RCRA Facility Investigation/Remedial Investigation (RFI/RI) (DOE 1995) and the Site Characterization Report for the 903 Drum Storage Area, 903 Lip Area, and the Americium Zone (DOE 1999) confirmed that radionuclide-contaminated soil remained.

Results from high purity germanium (HPGe) measurements and surface and subsurface soil analyses indicated that radionuclides were present in soil at activities greater than Wildlife Refuge Worker (WRW) Action Levels (ALs). The pre-remediation surface and subsurface soil data are shown on Figure 3. These data indicated the majority of the contamination was present in the top 6 inches of soil and limited contamination from 6 to 12 inches below the surface. Contamination was present in soil from 12 inches to 18 inches below the surface at only three locations.

2.2 Accelerated Action

IHSS 900-155 accelerated action activities were planned and executed in accordance with the BZSAP Addendum #BZ-04-01 (DOE 2003a), ER RSOP Notification #03-07 (DOE 2003b), and IM/IRA for IHSS Group 900-11 (DOE 2004a). Because the accelerated action was based on existing data, several samples were collected around the 903 Pad to determine the need for remediation. This information is reported in Section 2.3.

2.2.1 Accelerated Action Objectives

Accelerated action objectives were developed for and described in ER RSOP Notification #03-07 (DOE 2003b) and the IM/IRA for IHSS Group 900-11 (DOE 2004a). General remedial action objectives (RAOs) for IHSS 900-155 include the following:

1. Provide a remedy consistent with the RFETS goal of protection of human health and the environment;
2. Provide a remedy that minimizes the need for long-term maintenance and institutional or engineering controls; and
3. Minimize the spread of contaminants during implementation of accelerated actions.

Based on previous studies, the contaminants of concern (COCs) at IHSS 900-155 were radionuclides, and of specific concern, plutonium-239/240. Volatile organic compounds (VOCs) that may be related to IHSS 900-155 are addressed in the groundwater IM/IRA. Specific accelerated action objectives for the Inner and Outer Lip Areas were based on the goal of removing contaminated soil with plutonium-239/240 activities greater than

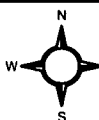
**Figure 3
Existing Surface
and Subsurface
Data for IHSS 900-155**

KEY

- WRW Exceedance
- Greater than background
- - - Dirt road
- IHSS

Only Plutonium-239/240
results (pCi/g) are shown
(WRW = 50pCi/g)

DRAFT



100 0 100 Feet

Scale = 1: 1700

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

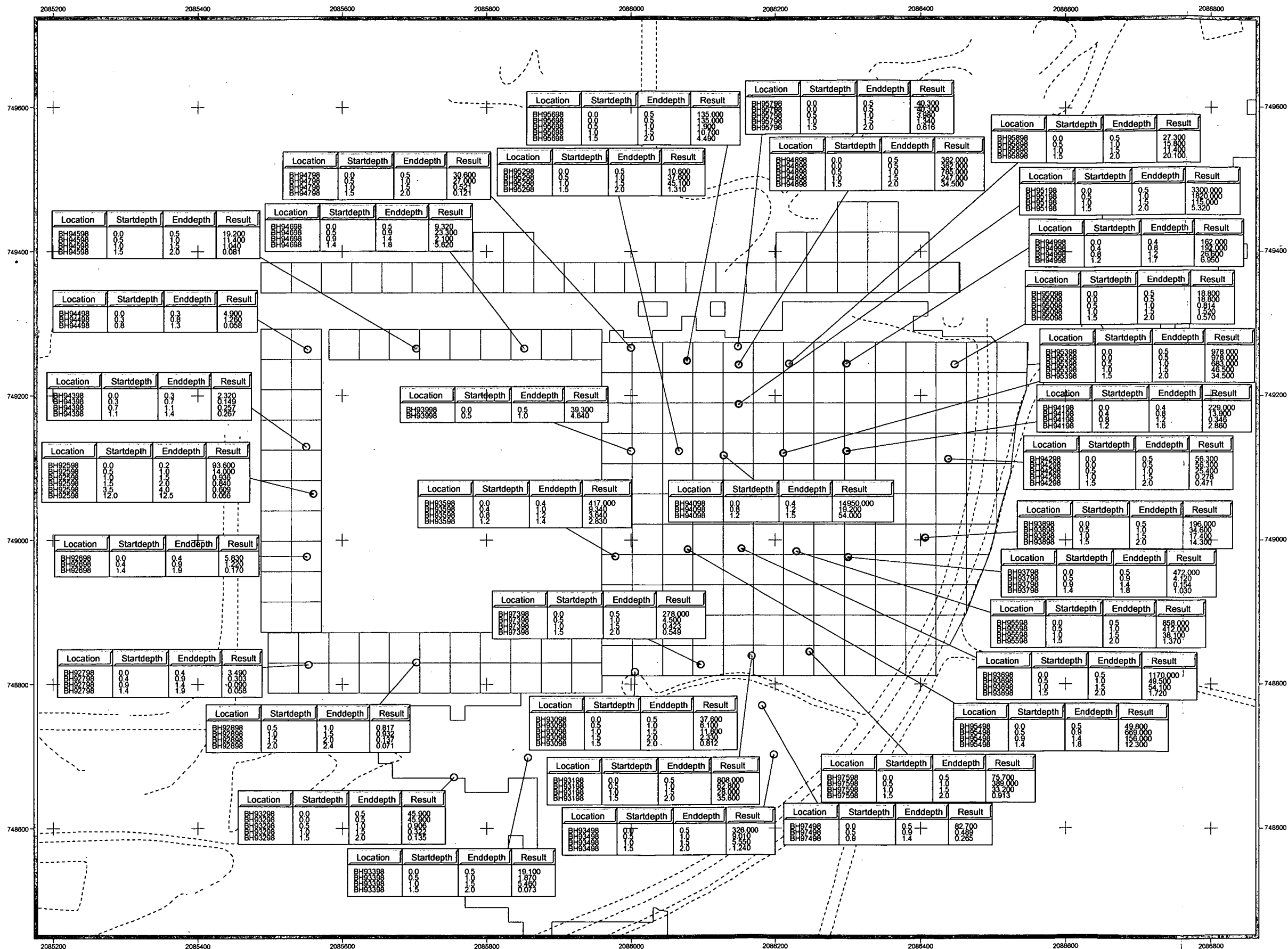
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the WRW AL of 50 picocuries per gram (pCi/g).

Accelerated action objectives included the following:

- Remove the top 6 inches of soil within the 903 Inner Lip Area (approximately 20 acres) and additional soil, as necessary, to remove all soil with plutonium-239/240 activities greater than 50 pCi/g, americium-241 activity greater than 76 pCi/g, or a radionuclide sum of ratio (SOR) greater than 1, or to a depth of 3 feet below ground surface (bgs);
- Remove soil in the Outer Lip Area in the area delineated by the 90 percent confidence kriging interval, as shown on Figure 4, to remove all soil with plutonium-239/240 activities greater than 50 pCi/g, americium-241 activity greater than 76 pCi/g, or a radionuclide SOR greater than 1, or to a depth of 3 feet bgs;
- Remove soil in isolated hot spot areas outside of the kriged area (Figure 4) with plutonium-239/240 activities greater than 50 pCi/g, americium-241 activity greater than 76 pCi/g, or a radionuclide SOR greater than 1, or to a depth of 3 feet bgs;
- Remove surface soil from isolated locations in OU 1 (IHSS 119.1 and IHSS 119.2) where the SOR value is greater than 1;
- Collect confirmation samples in accordance with the Buffer Zone Sampling and Analysis Plan (BZSAP) (DOE 2002a), BZSAP Addendum #BZ-04-01 (DOE 2003a), ER RSOP Notification #03-07 (DOE 2003b), and IM/IRA for IHSS Group 900-11 (DOE 2004a);
- Remove small structures, concrete pads, power poles, and other debris, as necessary; and
- Backfill or regrade as needed, and revegetate as appropriate.

2.2.2 IHSS 900-155 Accelerated Action Activities

Accelerated action activities were conducted between December 10, 2003 and September 11, 2004. Photographs of accelerated actions activities are included in Appendix A. Because accelerated action activities in the Inner Lip Area were conducted in accordance with ER RSOP Notification #03-07 (DOE 2003b) and in the Outer Lip Area in accordance with the IM/IRA for IHSS Group 900-11 (DOE 2004a), removal activities are described separately.

IHSS 900-155 Removal Activities

Removal activities at the Inner Lip and Outer Lip Areas are briefly described in the following sections.

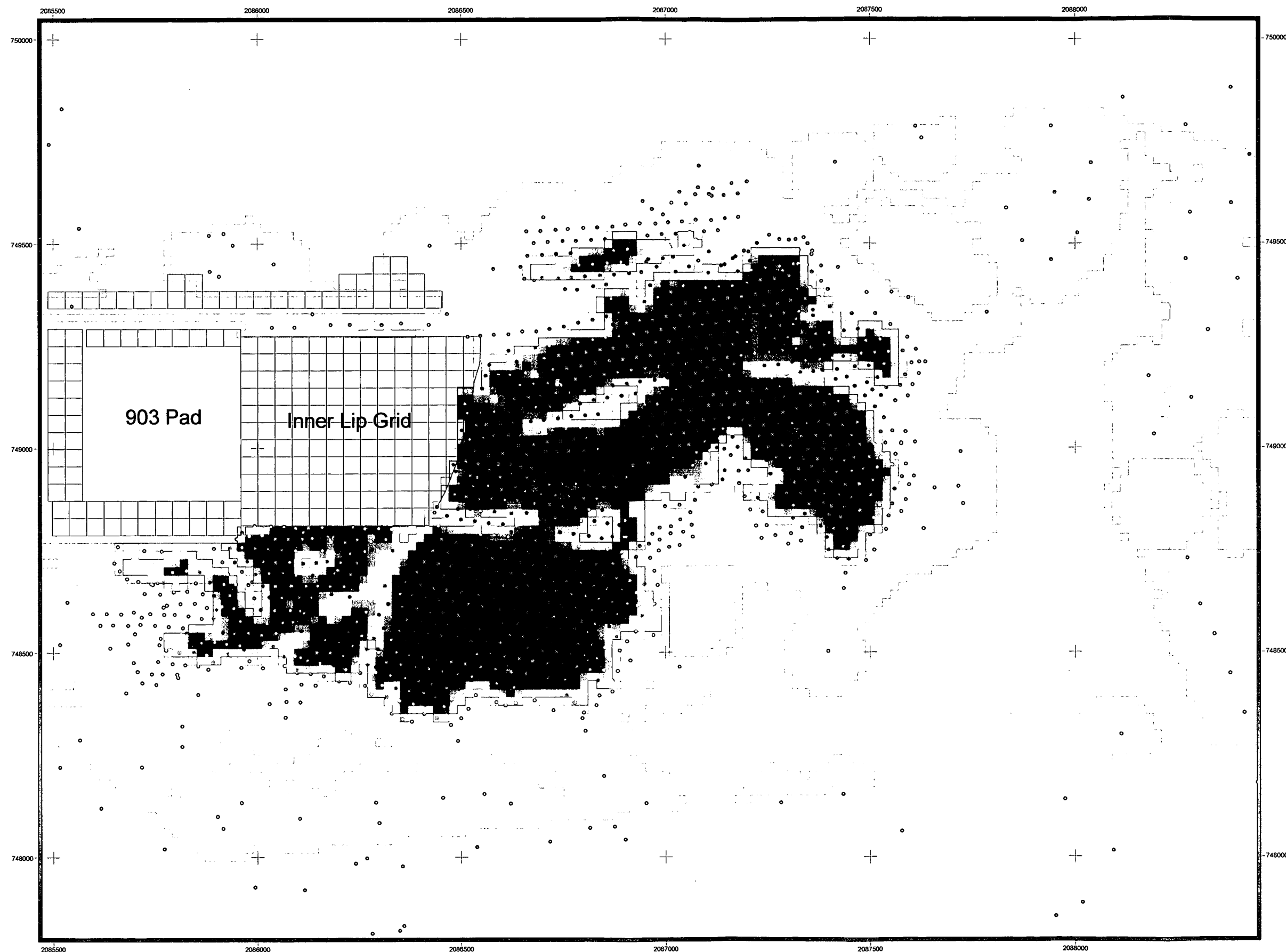
Inner Lip Area

1. The area surrounding the 903 Pad and extending east to the former IHSS 900-155 inner perimeter fence road was divided into 42-foot grid cells (Figure 2).

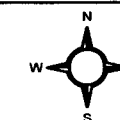
Figure 4
IHSS 900-155
Kriged Area

KEY

- Inner lip grid
- Actual Sampling Results (pCi/g)
- 0 - RSAL (50 pCi/g)
 - >RSAL (50 pCi/g)
- Kriging Results
(probability of contamination)
- 0 - 0.1
 - 0.1 - 0.2
 - 0.2 - 0.3
 - 0.3 - 0.4
 - 0.4 - 0.5
 - 0.5 - 0.6
 - 0.6 - 0.7
 - 0.7 - 0.8
 - 0.8 - 0.9
 - 0.9 - 1



DRAFT



200 0 200 Feet

Scale = 1: 3000

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: Date: 11.23.04

RADMS

Prepared for:





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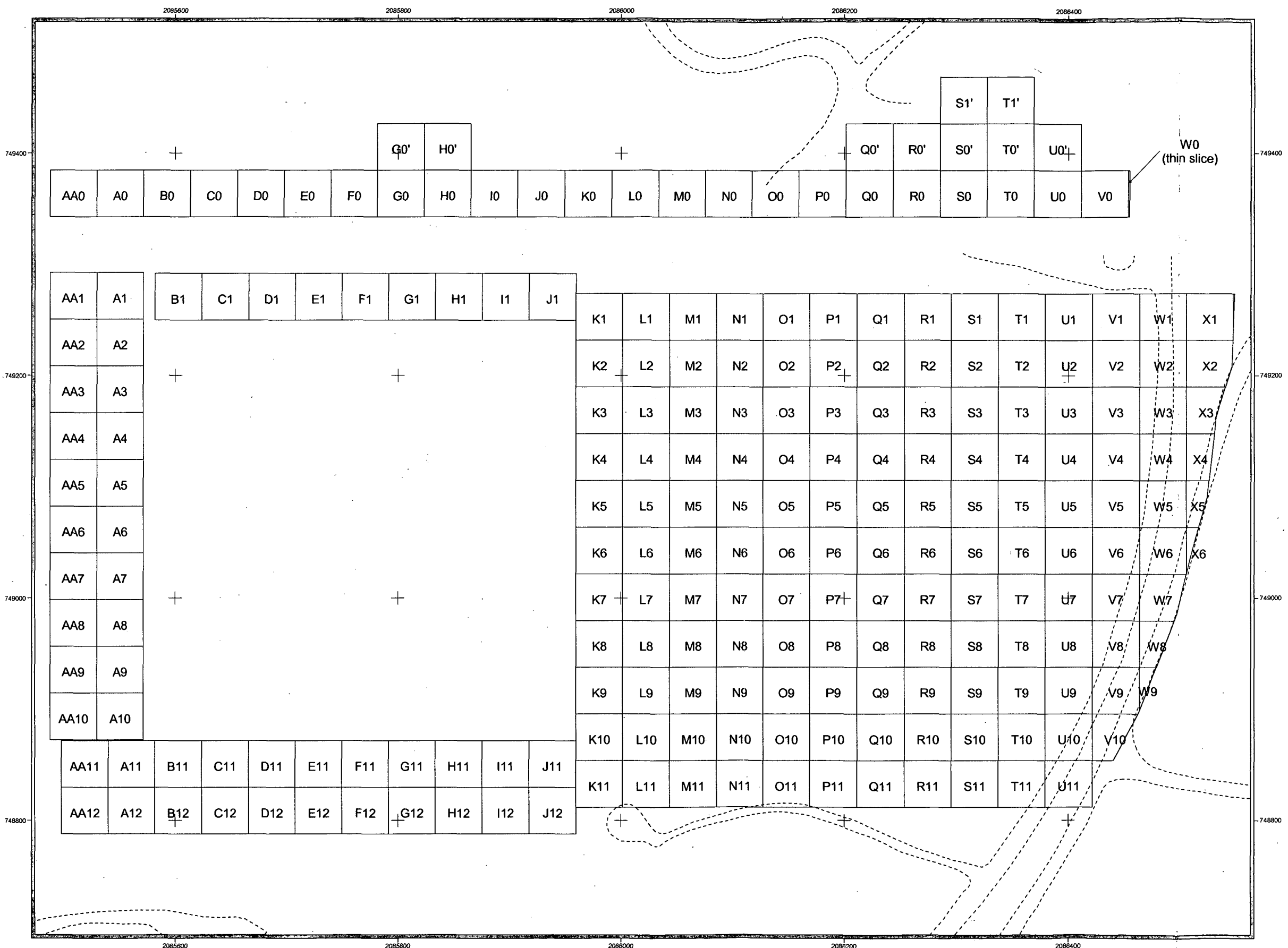
2. The grid cells were given alphanumeric designations as shown on Figure 5.
3. Approximately 1 foot of fill was present east of the 903 Pad. This fill was removed before characterization or remediation started.
4. If characterization data were available in a grid cell, and indicated plutonium-239/240 activity in soil was greater than the WRW AL, 6 inches of soil was excavated over the entire grid cell, and a confirmation sample was collected.
5. If characterization data were available in a grid cell, and indicated plutonium-239/240 activity in soil was less than the WRW AL, a confirmation sample was collected.
6. If characterization data were not available in a grid cell, a pre-screen sample was collected. If pre-screen sample analysis indicated plutonium-239/240 activity in soil was greater than the WRW AL, 6 inches of soil was excavated over the entire grid cell.
7. If characterization data were not available in a grid cell, a pre-screen sample was collected. If pre-screen sample analysis indicated plutonium-239/240 activity in soil was less than the WRW AL, a confirmation sample was collected.
8. If a confirmation sample indicated plutonium-239/240 activity greater than WRW AL, additional soil from the entire grid cell was excavated until confirmation samples indicated plutonium-239/240 activity in soil was less than the WRW AL or until 3 feet of native soil was removed and a confirmation sample was collected. Soil with plutonium-239/240 activities greater than 1 nannocurie per gram (nCi/g) at depths greater than 3 feet bgs was excavated, if necessary.
9. Excavated areas were contoured as necessary to minimize low areas and for storm water management. Erosion controls were established, including regrading and the placement of erosion mat, straw bales, and straw waddles, as necessary in the excavation areas.
10. Small structures, concrete pads, power poles, trees, wells and other debris were removed as necessary and disposed.
11. Monitoring wells designated to remain after completion of the removal action were protected.

A total of 183 cells were initially identified. After work began, an additional 43 cells (AA0-AA12; A0, B0, C0, D0, E0, F0, G0, H0, I0, J0, K0, L0, M0, N0, P0, Q0, R0, S0, T0, U0, V0, G0', H0', Q0', R0', S0', T0' U0', S1', and T1') were identified based on discussions with the regulatory agencies. Additionally, samples were collected from the area located between Central Avenue and the 903 Inner Lip Area. This area was initially thought to be included in the Central Avenue Ditch project. However, it was determined that this area was not included, and it was sampled to determine if any grid cells exceeded the AL. The total number of cells or partial cells identified was 226.

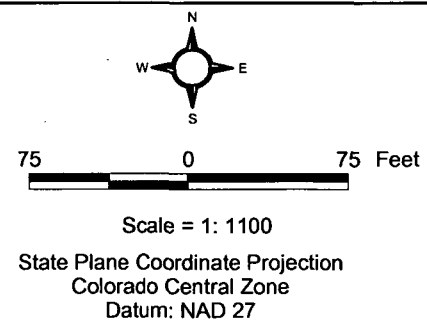
Figure 5
Inner Lip Area
Grid Designations

KEY

-  Dirt road
-  Inner lip grid cells



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Prepared for: 

Date: 11.03.04
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Outer Lip Area

Removal activities for the Outer Lip Area included the following:

1. An average of 6 inches of soil was removed from the kriged area starting in the western part of the Outer Lip Area and moving towards the east and south.
2. Individual confirmation grab samples were collected at 50-foot intervals across the kriged area from the upper three inches of remaining soil after excavation.
3. If a confirmation sample indicated plutonium-239/240 activity in soil was greater than the WRW AL, additional soil was removed until confirmation samples indicated plutonium-239/240 activity in soil was less than the WRW AL. Soil with plutonium-239/240 activities greater than 1 nCi/g at depths greater than 3 feet bgs was excavated, if necessary.
4. At OU 1 and other hot spots, soil was removed in a 10-meter diameter circle centered on the location of the original sampling point. Excavation continued until soil from the confirmation sample collected at the center of the circle was less than the WRW AL.
5. Small structures, concrete pads, power poles, trees, wells and other debris were removed as necessary and packaged for disposal.
6. Excavated areas were recontoured as necessary to minimize low areas and for storm water management. Erosion controls were established, including regrading and the placement of erosion mat, straw bales, and straw waddles.
7. Monitoring wells designated to remain were protected.

OU 1 and hot spot locations are shown on Figure 6 and include the following locations: CV36-000, FOV0506, FOV0507, FOV0513, SS100193, SS100293, SS100393, and SSSE05298.

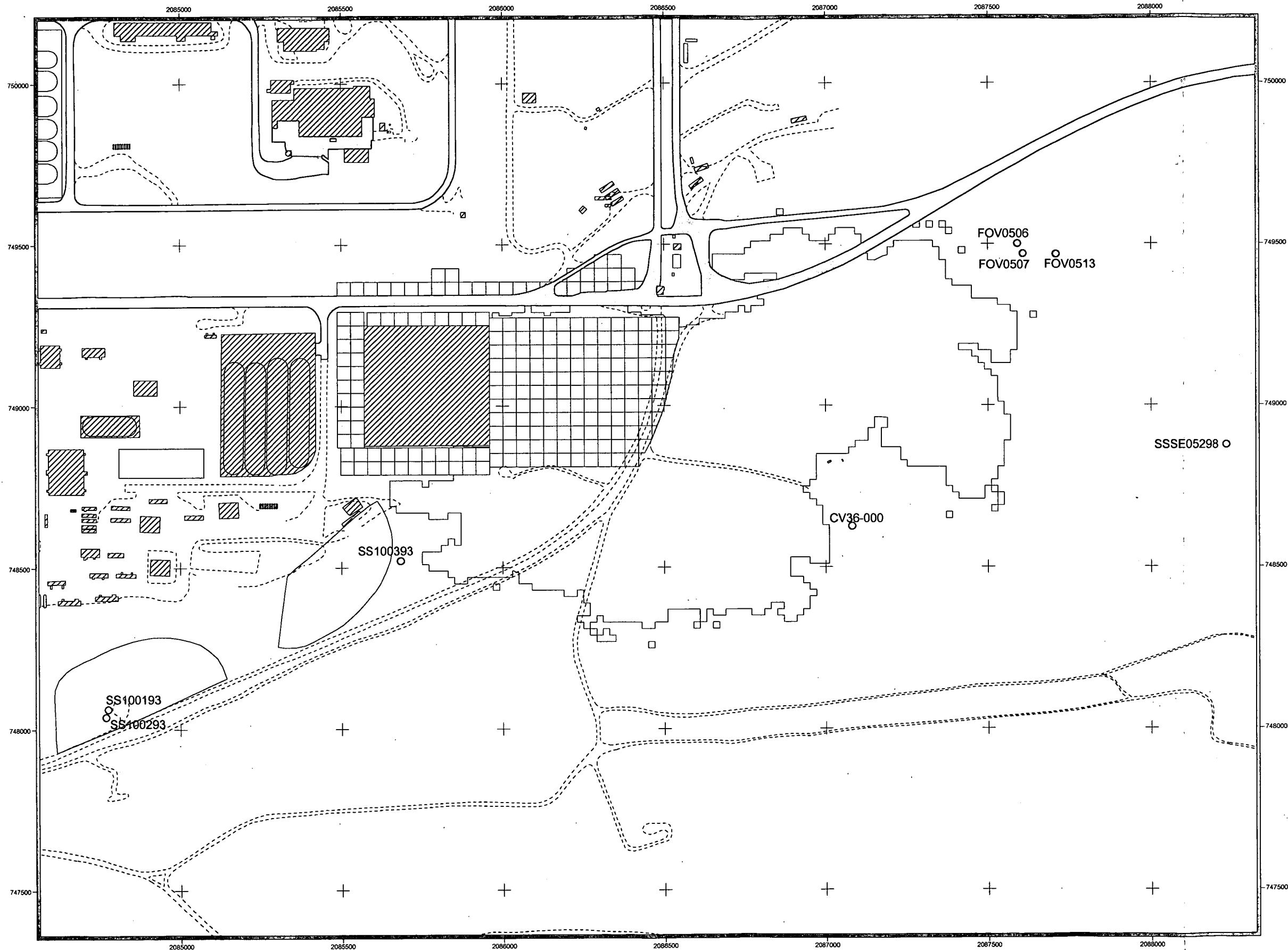
2.2.3 IHSS 900-155 Summary

The action for IHSS 900-155, 903 Lip Area included the excavation and offsite disposal of wind-blown contaminated soil. The following tasks were completed:

- Excavated 36.5 acres in the 903 Lip area;
- Removed 49,800 cubic yards (65,800 tons) of soil for disposal;
- Filled 3,452 intermodals with soil and shipped offsite for disposal;
- Filled 588 dirt, rubble, and trash (DRT) bags with soil and shipped offsite for disposal; and

Figure 6
OU1 and Other
Hotspot Locations
KEY

- Hotspots
- - - Dirt road
- IHSS
- ▭ Paved road
- ▨ Demolished building/structure
- ▭ Standing building/structure



DRAFT



250 0 250 Feet

Scale = 1: 3800

State Plane Coordinate Projection
 Colorado Central Zone
 Datum: NAD 27

U.S. Department of Energy
 Rocky Flats Environmental Technology Site

Prepared by: **RADMS**

Prepared for: **KAISER HILL COMPANY**

Date: 11.20.04
 File: W:\Projects\FY2005\903 Lip Area Closeout\903-Lip_Pu_110204.apr

- Collected confirmation samples in accordance with the Buffer Zone Sampling and Analysis Plan (BZSAP) (DOE 2002a), BZSAP Addendum #BZ-04-01 (DOE 2003a), ER RSOP Notification #03-07 (DOE 2003b), and IM/IRA for IHSS Group 900-11 (DOE 2004a).

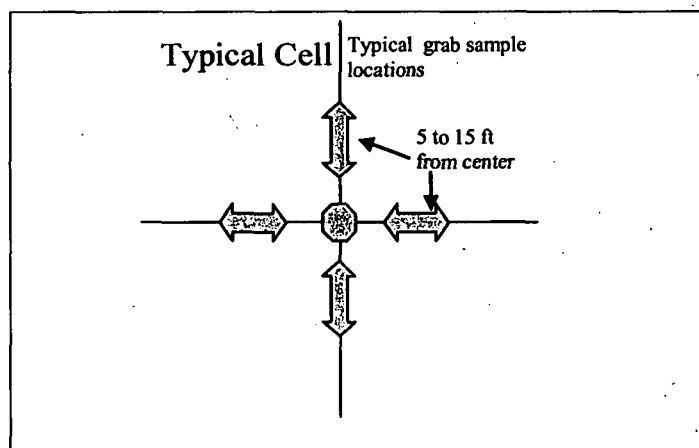
2.3 Confirmation Sampling

Confirmation sampling was conducted at IHSS 900-155 during removal activities in accordance with BZSAP Addendum #BZ-04-01 (DOE 2003a), ER RSOP Notification #03-07 (DOE 2003b), and IM/IRA for IHSS Group 900-11 (DOE 2004a) and through the consultative process. Confirmation sampling methods for the Inner and Outer Lip Areas are described below.

2.3.1 Inner Lip Area

Confirmation samples were collected from each grid cell in the Inner Lip Area as shown in Figure 7. Each confirmation sample consisted of 1 grab sample collected from the approximate middle of the cell and 4 grab samples collected from 5 to 15 feet from the center sample. All five samples were composited into one sample, which was analyzed using laboratory HPGE spectroscopy. The americium-241 to plutonium-239/240 conversion factor of 5.7 was used to calculate plutonium-239/240 activity. Confirmation samples collected in the southern kriged area consisted of a single grab sample.

Figure 7
Composite Confirmation Samples



Ten percent of the samples were sent to an offsite laboratory for alpha spectroscopy analysis. In addition, a split alpha spectroscopy sample of approximately 50 grams of soil was provided to EPA for 5% of the samples.

2.3.2 Outer Lip Area

After the initial soil was removed from the Outer Lip Area, confirmation samples were collected at 50-foot intervals across the kriged area from the upper three inches of remaining soil. Soil samples were analyzed at the field Gamma Spectroscopy laboratory.

Results of these gamma spectroscopy analyses were used to determine if additional soil removal was necessary. If results indicated that plutonium-239/240 activity in soil was less than the WRW AL, the sample was then sent to the onsite laboratory for HPGe analysis. The americium-241 to plutonium-239/240 conversion factor of 5.7 was used to calculate plutonium-239/240 activity.

Ten percent of the samples were sent to an offsite laboratory for alpha spectroscopy analysis. In addition, a split alpha spectroscopy sample of approximately 50 grams of soil was provided to EPA for 5% of the samples.

Confirmation sampling locations and results for IHSS 900-155, are shown on Figure 8. Figure 8 presents the lowest (greatest extent of excavation) confirmation sample collected at each location. Only plutonium-239/240 results are displayed on this map. Confirmation sampling data presented in Table 2, includes these locations along with their sampling depth and the results for americium-241, plutonium-239/240, uranium-234, uranium-235, and uranium-238. WRW AL exceedances are bolded and radionuclides derived from HPGe measures are italicized. Both Table 2 and Figures 8 and 9 present plutonium-239/240 values even if they are considered "nondetections". Confirmation sampling locations and results for the OU 1 hot spots are shown on Figure 9. Confirmation sampling results are on Table 2.

Gamma spectroscopy uranium-234 results were derived from their respective uranium-238 activities using a one-to-one ratio. Gamma spectroscopy plutonium-239/240 activities were derived from their respective americium-241 activities.

2.3.3 Sums of Ratios

Based on the WRW ALs, RFCA radionuclide SORs were calculated for the IHSS 900-155 and OU 1 hot spot confirmation sampling locations. SORs were calculated for locations having analytical results greater than background means plus two standard deviations for samples at depths less than 3 feet. Table 3 presents the SORs for radionuclides in soil. All SORs for radionuclides in soil from 0 to 3 feet were less than 1.

2.4 IHSS 900-155 Accelerated Action Summary

Accelerated actions at IHSS 900-155 resulted in the removal of plutonium-contaminated soil with activities greater than 50 pCi/g in the Inner Lip Area and the Outer Lip Area. Soil with plutonium-239/240 activities greater than the WRW AL (50 pCi/g) were excavated until a confirmation sample returned a result less than 50 pCi/g of plutonium-239/240 or at least 3 ft (from the surface) of material was removed. The highest remaining activity between 0 and 3 feet is 49.881 pCi/g at sampling location CO36-018. The lowest activity between 0 and 3 feet is 0.199 pCi/g at sampling location CP35-002. The average residual plutonium-239/240 activity is 13.04 pCi/g, and the average excavation depth was 0.9 feet. The average excavation depth in the Inner Lip Area was 1.1 feet, and in the Outer Lip Area it was 0.9 feet. The extent of soil removal is shown on

THIS TARGET SHEET REPRESENTS AN
OVER-SIZED MAP / PLATE FOR THIS DOCUMENT:
(Ref: 04-RF-01218; KLW-048-04)

**Draft Closeout Report
IHSS Group 900-11**

**IHSS 900-155, 903 Lip Area
IHSS 900-140, Hazardous Disposal Area**

December 2004

Figure 8:

**IHSS 155 Confirmation Sampling
Locations and Results**

**File: W:\Projects\FY2005\903 Lip Area Closeout\903-
Lip_Pu_110204.apr**

November 19, 2004

CERCLA Administrative Record Document, BZ-A-000779

**U.S. DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE**

GOLDEN, COLORADO

23

Figure 9

OU1 Plutonium Hotspot
Confirmation Sampling Results

KEY

- Dirt road
- Less than WRW action level
- IHSS
- Asphalt
- Demolished building/structure
- Standing building/structure

DRAFT



200 200 Feet

Scale 1: 3500

State Plane Coordinate Projection

Colorado Central Zone

Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Date: 11/22/04

Prepared by:

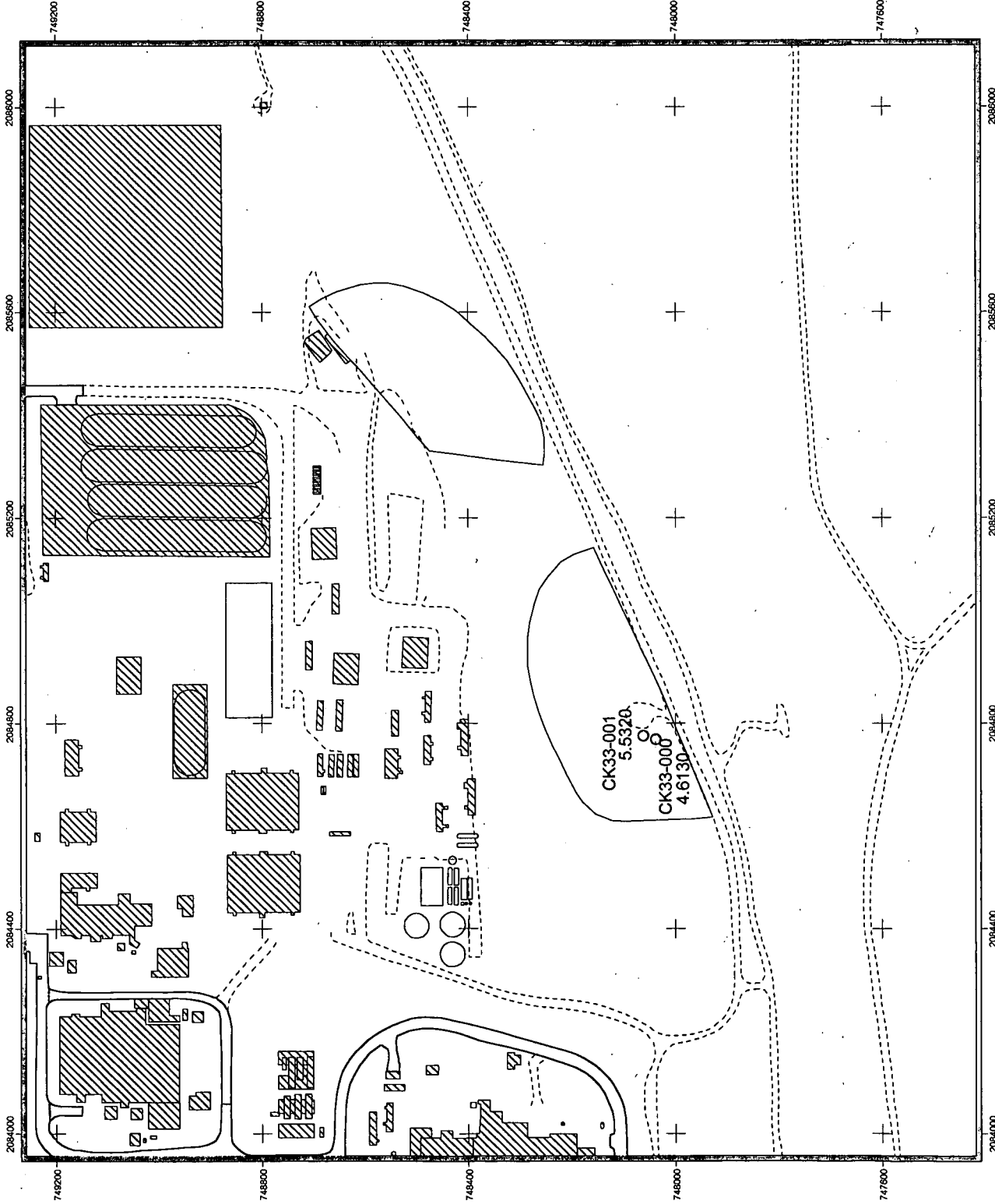
Prepared for:

RADNIS



KAISER-HILL
COMPANY

File: W:\Projects\FY2005\903 Lip Area Closeout
903-Lip_PU_110204.apr



24

Figure 10. At isolated kriged areas outside the main kriged area, approximately 3 inches of soil was removed and the remaining soil was evaluated with field instruments. All surface soil (0 to 3 feet) SORs were less than 1.

Based on pre-remediation sampling events, plutonium-239/240 remains in soil at IHSS 900-155. The highest activity between 3 and 6 ft remaining at IHSS 900-155 is 12.40 pCi/g of plutonium-239/240 at a depth of 3.3 to 3.5 feet bgs at sampling location CP36-030.

Summary statistics for IHSS 900-155 analytical results (characterization and confirmation analysis) are presented in Table 4 for surface and subsurface soil. Only those analytes detected at activities greater than background means plus two standard deviations are presented. All project data, retrieved from the RFETS Soil Water Database (SWD) on November 19, 2004, are provided on the enclosed compact disk (CD). The CD contains standardized real and QC data (Chemical Abstracts Service [CAS] numbers, analyte names, and units).

3.0 IHSS 900-140 HAZARDOUS DISPOSAL AREA

3.1 Site Characterization

IHSS 900-140, Hazardous Disposal Area is shown on Figure 2. Historical information for IHSS 900-140 is described below.

3.1.1 Historical Information

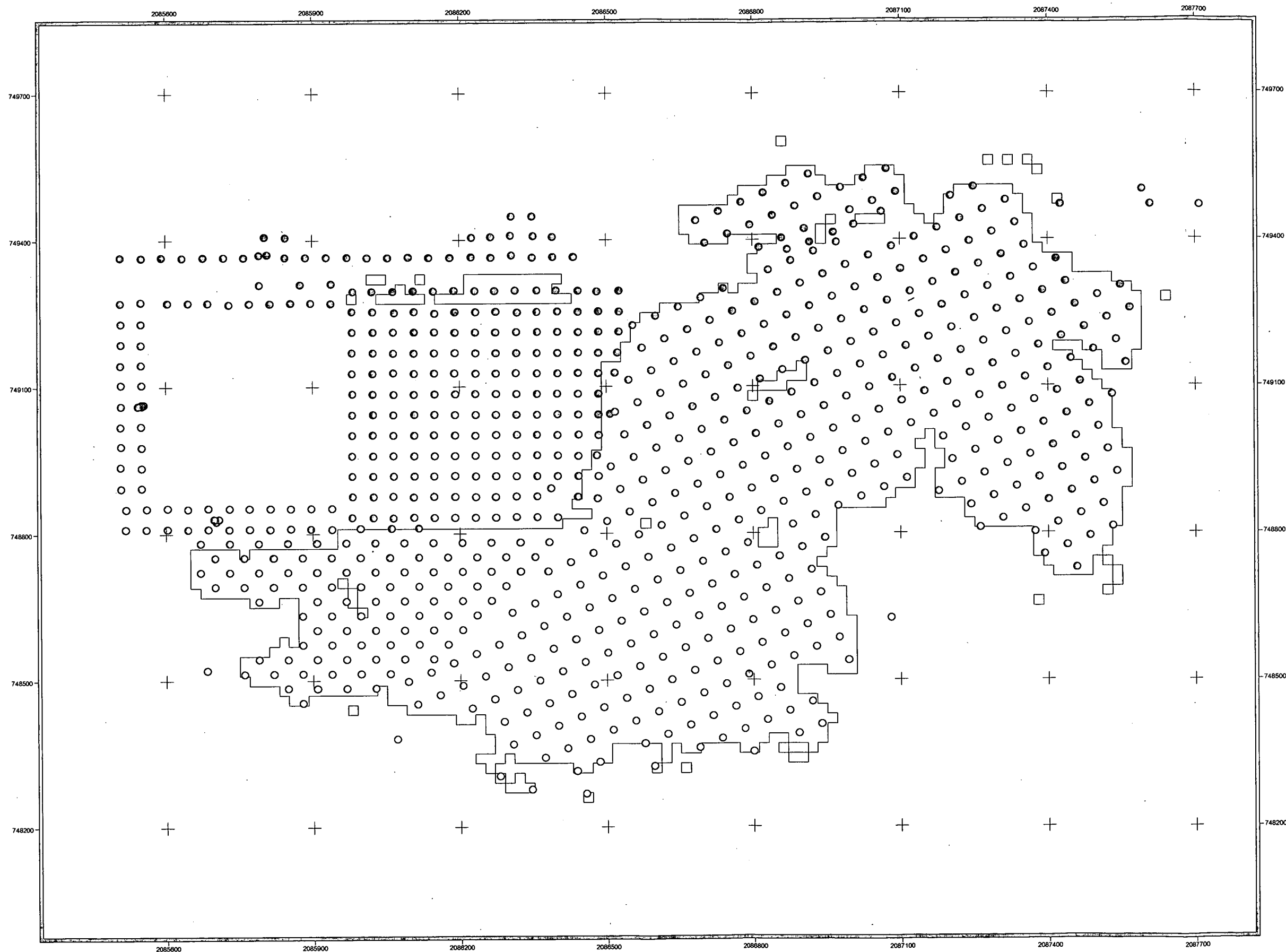
The Hazardous Disposal Area (IHSS 900-140) was used for the destruction and disposal of reactive metals and other chemicals. Destruction of metallic lithium occurred in the 1950s and 1960s. The destructive reaction process included the disposition of metallic lithium in a trench and subsequent moistening with water to initiate the reaction. After the reaction, the residue (non-toxic lithium carbonate) was covered with fill and buried at the southeastern corner of the site. It is estimated that approximately 400 to 500 pounds of lithium were destroyed at the site. Unknown quantities of other reactive metals (sodium, calcium, and magnesium) and some solvents were also destroyed at this location. In addition, it was thought that nine bottles of nickel carbonyl and one can of iron carbonyl were disposed of in this area (DOE 1992). However, Report No. 317-72-174 Nickel Carbonyl Disposal (Hobbs 1972) stated "Approximately 185 pounds of nickel carbonyl contained in seven 25-pound, two 5-pound cylinders, and one lecture bottle..." were safely emptied and disposed elsewhere on site.

Previous analytical data collected at IHSS 900-140 indicated several metal concentrations greater than background means plus two standard deviations, but none greater than WRW ALs.

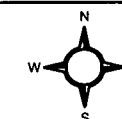
Figure 10
Extent of Excavation
at IHSS 155

KEY

- Confirmation samples
- Krig boundary



DRAFT



200 0 200 Feet

Scale = 1: 2500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: Date: 11.20.04

RADMS

Prepared for:



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3.2 Accelerated Action

IHSS 900-140 accelerated action activities were planned and executed in accordance with the IM/IRA for IHSS Group 900-11 (DOE 2004a). Accelerated action activities consisted of determining whether lithium contamination was present.

3.2.1 Accelerated Action Activities

Because IHSS 900-140 was reported to contain a trench or several trenches, a magnetometer study was conducted to determine whether trenches could be detected in the subsurface. Based on the magnetometer study, the locations shown on Figure 11 were excavated to an approximately 3-foot radius around the location. Soil was removed in 1 foot lifts to an approximate depth of 4 feet bgs. Visible excavated debris was segregated from the excavated soil. Debris consisted of wood, utility poles, fence posts, rebar, and miscellaneous debris. After the debris was removed, confirmation samples were collected. Photographs of accelerated actions activities are included in Appendix A.

Because of the health and safety concerns regarding potential nickel carbonyl canisters at these locations, additional health and safety measures were taken. No nickel carbonyl canisters were found at IHSS 900-140.

3.3 Confirmation Sampling

Confirmation sampling was conducted at IHSS 900-140 in accordance with the IM/IRA for IHSS Group 900-11 (DOE 2004a) and through the consultative process (Contact Record dated October 18, 2004 [Appendix B]).

A confirmation sample was collected from the bottom of each excavated area, and the soil was analyzed for metals. Ten additional samples were collected from surface and the first subsurface soil interval at locations outside of the excavated areas. These soil samples were analyzed for lithium. The results of the confirmation samples are illustrated on Figure 12. Table 5 lists the analytical results.

Radionuclide confirmation sampling results for IHSS 900-140 are reported as part of IHSS 900-155 (Section 2.4).

3.4 Sums of Ratios

SORs were calculated for non-radionuclides for all surface locations where analyte concentrations were 10 percent or more of a contaminant's WRW AL. There were no locations with non-radionuclide analyte concentrations greater than 10 percent or more of a contaminant's WRW AL. Radionuclide SORs are reported as part of IHSS 900-155 (Section 2.5).

3.5 IHSS 900-140 Accelerated Action Summary

Accelerated actions at IHSS 900-140 consisted of excavation of several potential trench areas, the removal of debris, and confirmation sampling in the trenches and in 10 areas

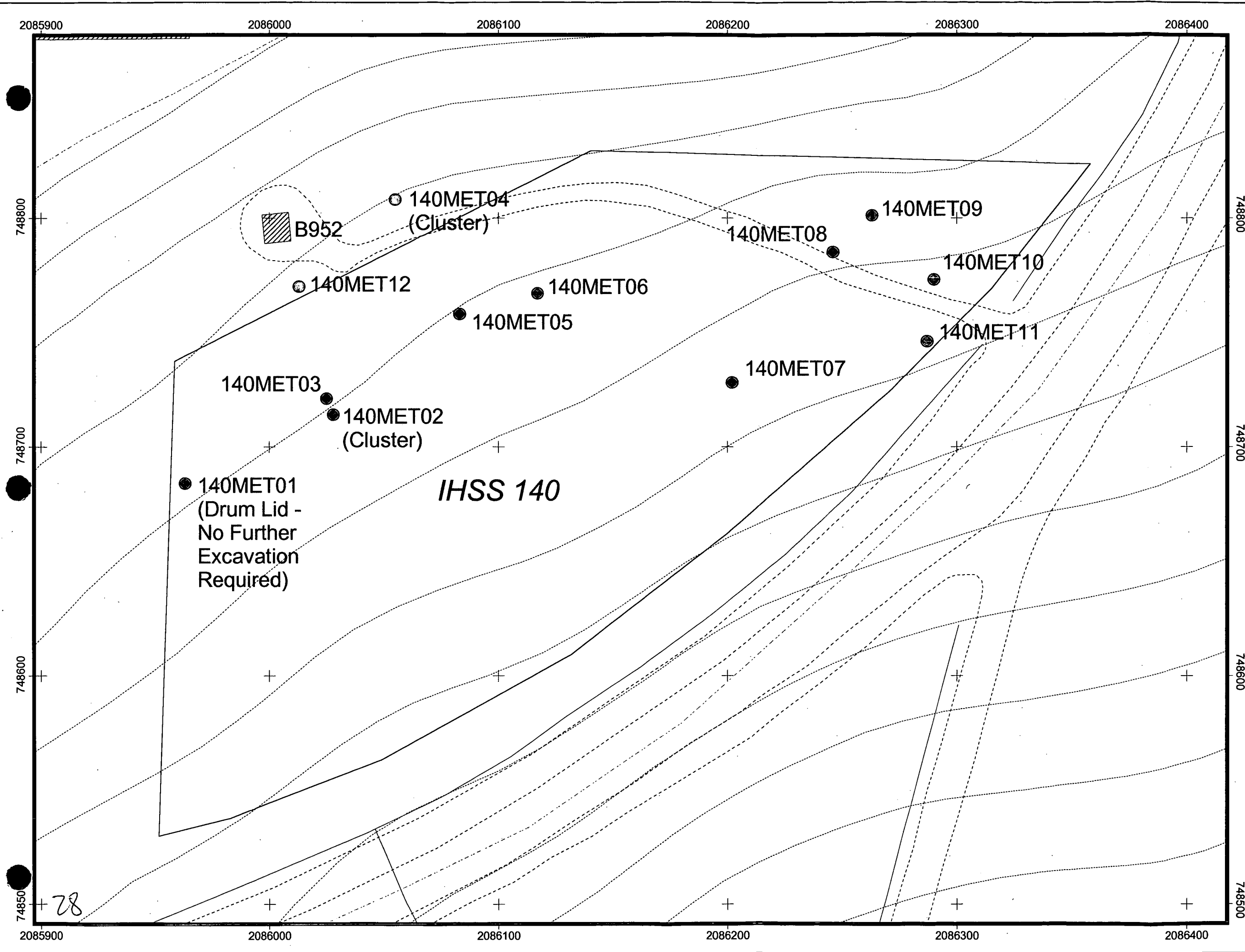
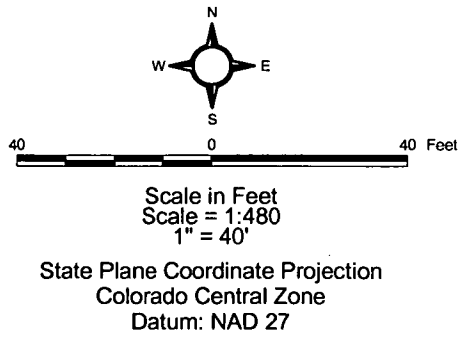




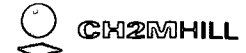
FIGURE 11
900-11 (IHSS 140)
Magnetometer Survey Result

- KEY**
- Pin Flag Survey Points
 - Building or Other Structure
 - ▨ Demolished Structure
 - IHSS location
 - Paved Surface
 - Paved area
 - - - Dirt road
 - ~ Stream, ditch, or other drainage feature
 - 5-Ft Topographic Contours

903 Lip Area Overview Map



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Prepared for:	Prepared on:
 KAISER-HILL COMPANY	07.19.2004 (MAP ID: 04-0669)
Prepared with:	Prepared by:
 RADMS	 CH2MHILL

File: W:\Projects\Fy2004\900-11_IHSS140\IHSS40_50ft_buffer_samples.apr, Size-B Pin Flags

KEY

- IHSS

Scale = 1: 600

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

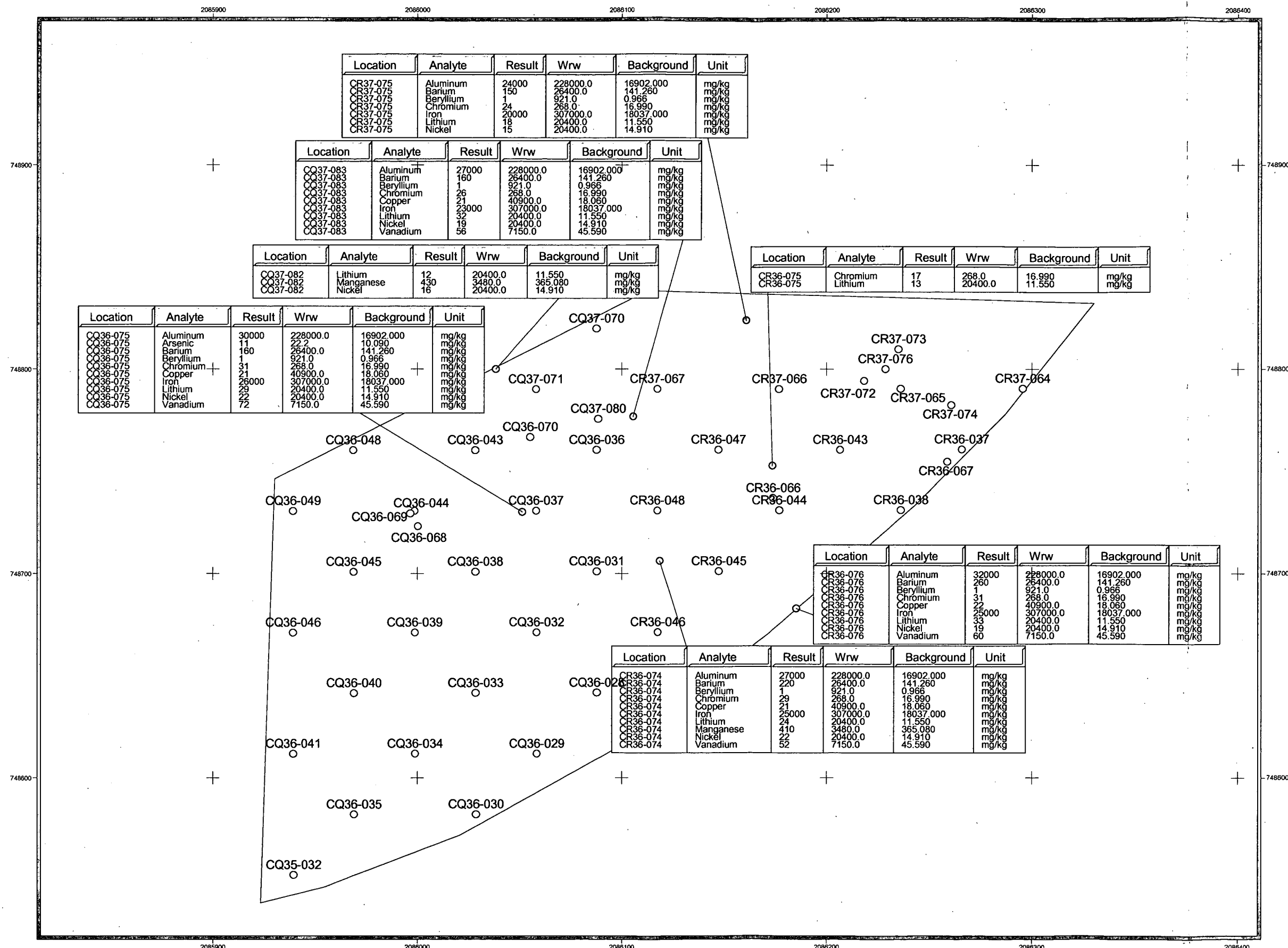
Date: 11.23.04

Prepared by:

Prepared for:



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903-Lip Pu 110204.apr



outside of the trenches. There were no WRW AL exceedances. The highest remaining lithium concentration in the surface soil is 33 milligrams per kilogram (mg/kg) at sampling location CR36-076. The WRW AL for lithium is 20,400 mg/kg. Subsurface soil metal concentrations are less than background means plus two standard deviations.

Summary statistics for IHSS 900-140 analytical results (characterization and confirmation analysis) are presented in Table 4. Only those analytes detected at activities greater than background means plus two standard deviations are presented. All project data, retrieved from the RFETS SWD on November 19, 2004, are provided on the enclosed CD. The CD contains standardized real and QC data (CAS numbers, analyte names, and units).

4.0 RCRA UNIT CLOSURE

Not applicable.

5.0 SUBSURFACE SOIL RISK SCREEN

The SSRS follows the steps identified on Figure 3 in Attachment 5 of RFCA (DOE et al. 2003). Ecological effects will be further evaluated in the AAESE and the ecological risk assessment portion of the Sitewide CRA.

Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 soil action levels?

Yes. All COC concentrations are below the WRW ALs. The highest remaining activity between 0 and 3 feet is 49.881 pCi/g at sampling location CO36-018. The lowest activity between 0 and 3 feet is 0.199 pCi/g at sampling location CP35-002. The average residual plutonium-239/240 activity is 13.04 pCi/g, and the average excavation depth was 0.9 feet. The average excavation depth in the Inner Lip Area was 1.1 feet, and in the Outer Lip Area it was 0.9 feet. The extent of soil removal is shown on Figure 10. At isolated kriged areas outside the main kriged area, approximately 3 inches of soil were removed and the remaining soil was evaluated with field instruments. All surface soil (0 to 3 feet) SORs are less than 1.

The highest remaining lithium concentration in the surface soil at IHSS 900-140 is 33 mg/kg at sampling location CR36-076. The WRW AL for lithium is 20,400 mg/kg. Subsurface soil metal concentrations are less than background means plus two standard deviations.

Screen 4 - Is there an environmental pathway and sufficient quantity of COCs that would cause exceedance of surface water standards?

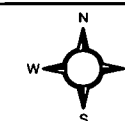
Migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by IHSSs 900-155 and 900-140. As shown on Figure 13, monitoring locations GS39, GS51, GS52, GS53, GS54, and SW055 comprise the 903 Pad and Inner/Outer Lip accelerated action monitoring network (DOE 2003d).

Figure 13
Surface Water
and Groundwater
Monitoring Locations

KEY

- Sampling location
- Streams
- - - Dirt road
- Pond
- ▨ Demolished building/structure
- Standing building/structure
- IHSS

DRAFT



300 0 300 Feet

Scale = 1: 4500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
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Date: 11.22.04

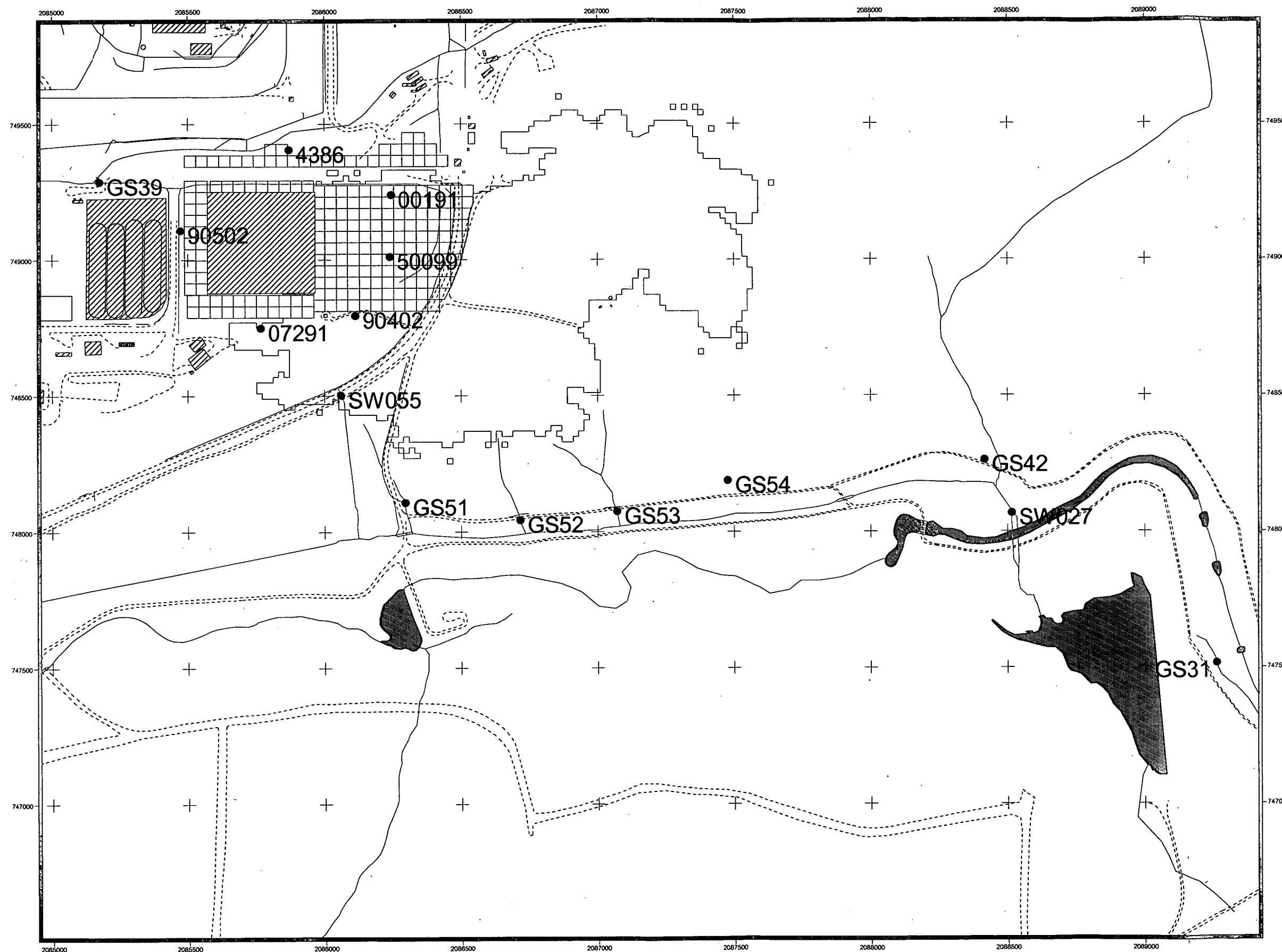
Prepared by:

RADMS

Prepared for:



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Approximately 36 acres were disturbed during this action, which resulted in an increased sediment loading to surface water even with extensive erosion control. Recent surface water evaluations indicate subdrainages GS51 and GS52 contribute the vast majority of actinide loading seen at SW027. Actinide loading increased significantly during FY04. Plutonium and americium activities at SW027, the downstream RFCA Point of Evaluation, also increased during this time. These data indicate that 903 Pad and Lip activities may have impacted surface water. However, because the major actinide source area was removed and the area was revegetated, it is anticipated that both sediment loading and actinide concentrations in surface water will be reduced at the monitoring locations near the 903 Lip Area and at SW027 as the soil disturbed by the remedial action is stabilized by the new vegetation.

Six groundwater monitoring wells make up the current network of wells used for monitoring the 903 Pad. Well numbers 4386, 00191, 50099, 90402, 07291, and 90502 encircle the 903 Pad. Their locations are shown on Figure 13.

The groundwater contamination in the IHSS Group 900-11 area is considered part of the 903 Pad Plume, which comingles with both the East Trenches and Ryan's Pit Plumes. COCs in this plume are primarily VOCs (DOE 2002c). Groundwater contamination will be evaluated as part of the groundwater IM/IRA and future Sitewide evaluations.

6.0 STEWARDSHIP EVALUATION

This stewardship evaluation applicable to IHSS Group 900-11 is documented in the following sections. The regulatory agencies were kept informed through frequent project updates, e-mails, telephone contacts, and personal contacts throughout the duration of the project. Copies of the applicable and pertinent communiqués are in Appendix B.

6.1 Current Site Conditions

Plutonium-contaminated soil with activities greater than 50 pCi/g was removed during the accelerated action. IHSS 900-155 residual contamination consists of soil with radionuclide activities greater than background means plus two standard deviations from the surface to below 3 feet bgs. Metals at concentrations greater than background means plus two standard deviations remain at IHSS 900-140.

The action for the IHSS 900-155 903 Lip Area included the excavation and offsite disposal of wind-blown contaminated soil. The following tasks were completed:

- Excavated 36.5 acres in the 903 Lip area;
- Removed 49,800 cubic yards (65,800 tons) of soil for disposal;
- Filled 3,452 intermodals with soil and shipped offsite for disposal;
- Filled 588 DRT bags with soil and shipped offsite for disposal; and

- Collected confirmation samples in accordance with the Buffer Zone Sampling and Analysis Plan (BZSAP) (DOE 2002a), BZSAP Addendum #BZ-04-01 (DOE 2003a), ER RSOP Notification #03-07 (DOE 2003b), and IM/IRA for IHSS Group 900-11 (DOE 2004a).

Actions at IHSS 900-140 consisted of excavating several trench areas, removing debris, and collecting confirmation samples in accordance with the IM/IRA for IHSS Group 900-11 (DOE 2004a) and the consultative process.

6.2 Near-Term Management Recommendations

The accelerated action for IHSS Group 900-11 met the accelerated action objectives. Contaminant concentrations remaining in soil at IHSS Group 900-11 do not warrant any further accelerated action based on RFCA. VOCs in soil at IHSS Group 900-11 will be addressed in the Sitewide Groundwater IM/IRA. Near-term recommendations include the following:

- Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process, and will remain in place pending implementation of any long-term controls (if applicable).
- Erosion controls will be maintained.
- Access will be restricted to minimize disturbance to newly revegetated areas.
- Institutional controls will be implemented to provide site security and to limit site access.
- Groundwater and surface water monitoring will continue as part of the Integrated Monitoring Program (IMP).

6.3 Long-Term Stewardship Recommendations

Based on remaining environmental conditions at IHSS Group 900-11, no specific long-term stewardship activities are recommended beyond the generally applicable Site requirements. These requirements may be imposed on this area in the future. Institutional controls that may be used as appropriate for this area include the following:

- Prohibitions on construction of buildings in the BZ;
- Restrictions on excavation or other soil disturbance; and
- Prohibitions on groundwater pumping in the area of IHSS Group 900-11.

No specific engineered controls or IHSS Group 900-11 specific environmental monitoring is recommended as a result of the conditions remaining at IHSS Group 900-11. Likewise, no specific institutional or physical controls are recommended as a result of the conditions remaining at IHSS Group 900-11.

This closeout report and associated documentation will be retained as part of the Rocky Flats Administrative Record (AR). The specific long-term stewardship recommendations will also be summarized in the Rocky Flats Long-Term Stewardship Report.

IHSS Group 900-11 will be evaluated as part of the Sitewide CRA, which is part of the RI/FS that will be conducted for the Site. The need for and extent of any more general, long-term stewardship activities will also be evaluated in the RI/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for Rocky Flats will ultimately be contained in the Corrective Action Decision/Record of Decision (CAD/ROD).

6.4 Accelerated Action Stewardship

Stewardship actions that were implemented during the accelerated action included performing air monitoring, surface water monitoring, groundwater monitoring and posting signs and barriers.

7.0 DEVIATIONS FROM THE ER RSOP

Overall removal methods and objectives did not deviate from ER RSOP Notification #03-07 or the IM/IRA with the following exceptions:

Additional sampling was conducted at IHSS 900-140 (Regulatory Contact Record dated October 18, 2004).

8.0 POST-REMEDIATION CONDITIONS

Post-remediation conditions at IHSS Group 900-11 are described below.

8.1 Residual Contamination

Accelerated actions at IHSS 900-155 resulted in the removal of plutonium-contaminated soil with activities greater than 50 pCi/g in the Inner Lip Area and the Outer Lip Area. Native soil with plutonium-239/240 activities greater than the WRW AL (50 pCi/g) were excavated until a confirmation sample returned a result less than 50 pCi/g of plutonium-239/240 or at least 3 ft (from the surface) of material was removed. The highest activity between 0 and 3 feet is 49.881 pCi/g at sampling location CO36-018. The lowest activity between 0 and 3 feet is 0.199 pCi/g at sampling location CP35-002. The average residual plutonium-239/240 activity is 13.04 pCi/g, and the average excavation depth was 0.9 feet. The average excavation depth in the Inner Lip Area was 1.1 feet, and in the kriged area it was 0.9 feet. The extent of soil removal is shown on Figure 10. All SORs for radionuclides at IHSS 900-155 in soil were less than 1.

Accelerated actions at IHSS 900-140 consisted of excavation of several potential trench areas, the removal of debris, and confirmation sampling in the trenches and in 10 area outside of the trenches. There were no WRW AL exceedances. The highest remaining lithium concentration in the surface soil is 33 mg/kg at sampling location CR36-076. All

subsurface soil metal concentrations are less than background means plus two standard deviations.

9.0 WASTE MANAGEMENT

Waste from the IHSS Group 900-11 accelerated action consisted of asphalt, concrete, and soil. All waste was characterized to ensure appropriate disposal. Table 6 summarizes the waste management information for this project.

10.0 SITE RECLAMATION

The excavated areas were regraded and a xeric grassland seed mix was spread over the site using broadcast seeding methods. Erosion matting in conjunction with straw wattles and bales were used to conserve moisture and prevent erosion.

11.0 NO LONGER REPRESENTATIVE SAMPLING LOCATIONS

As a result of this action, multiple samples have been designated as NLR. Any sample representative of roadbase or fill material overlying the first native soil horizon is NLR, because all of this material was removed.

The native soil horizons were disturbed at varying depths. Table 7 lists the sample location code, start depth, and end depth that correspond to the NLR sample. The samples will be permanently flagged as NLR in SWD, the Site's official repository for environmental data.

12.0 DATA QUALITY ASSESSMENT

The DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements:

- EPA 1994a, Guidance for the Data Quality Objective (DQO) Process, QA/G-4;
- EPA 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9; and
- U.S. Department of Energy (DOE), 1999c, Quality Assurance, Order 414.1A.

Verification and validation (V&V) of data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review;
- EPA 540/R-94/013, 1994d, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review;
- Kaiser-Hill Company, L.L.C. (K-H) V&V Guidelines:
 - General Guidelines for Data Verification and Validation, DA-GR01-v2, 2002a
 - V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2, 2002b
 - V&V Guidelines for Volatile Organics, DA-SS01-v3, 2002c
 - V&V Guidelines for Semivolatile Organics, DA-SS02-v3, 2002d
 - V&V Guidelines for Metals, DA-SS05-v3, 2002e, and
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) AR for permanent storage 30 days after being provided to the Colorado Department of Public Health and Environment (CDPHE) and/or EPA.

12.1 V&V of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely PARCCS parameters. Data traceability and archival are also addressed. In general, V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold times;
- Instrument calibrations;
- Preparation blanks;
- Interference check samples (metals);
- Matrix spikes/matrix spike duplicates (MS/MSDs);
- Laboratory control samples (LCSs);
- Field duplicate measurements;

- Chemical yield (radiochemistry);
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively); and
- Sample analysis and preparation methods.

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (i.e., within tolerances acceptable to the project). Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records.

Raw hard-copy data (for example, individual analytical data packages) are currently filed by report identification number (RIN) and maintained by K-H Analytical Services Division (ASD); older hard copies may reside in the Federal Center in Lakewood, Colorado. Electronic data are stored in the RFETS SWD.

Both real and quality control (QC) data are included on the enclosed CD.

12.1.1 Accuracy and Precision

The standard measures of accuracy and precision that are generally measured are:

- LCSs;
- Surrogates;
- Field blanks; and
- Sample MSs.

Results are compared to method requirements and project goals. The results of these comparisons are summarized for RFCA COCs where the result could impact project decisions. Particular attention is paid to those values near ALs when QC results could indicate unacceptable levels of uncertainty for decision-making purposes.

Laboratory Control Sample Evaluation

As indicated in Table 8, LCS analyses were run for alpha spectroscopy and method SW846 6010.

The minimum and maximum LCS results are tabulated, by chemical, for the entire project in Table 9. LCS results that were outside of tolerances were reviewed to determine whether a potential bias might be indicated. LCS recoveries are not indicative of matrix effects because they are not prepared using site samples. LCS results do indicate whether the laboratory may be introducing a bias in the results. Recoveries reported above the upper limit may indicate the actual sample results are less than reported. Because this is environmentally conservative, no further action is needed. The analytes with unacceptable low recoveries were evaluated. If the highest sample result less than the AL, divided by the lowest LCS recovery for that analyte, is less than the AL, no further action is taken because any indicated bias is not great enough to affect project

decisions. As a result of this analysis, the LCS recoveries for this project did not impact project decisions. Any qualifications of individual results because of LCS performance exceeding upper or lower tolerance limits are captured in the V&V flags, described in Section 12.1.3.

Surrogate Evaluation

Surrogates were not evaluated during this project because only radionuclides and metals are reported.

Field Blank Evaluation

Results of the field blank analyses are provided in Table 10. Detectable (non-"U" laboratory qualified) amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples. Evaluation consists of multiplying the field blank results by 10 (for laboratory contaminants) or by 5 (for non-laboratory contaminants) and comparing them to the WRW ALs. To be conservative a factor of 10 is used in this evaluation. When the corrected field blank result is less than the WRW AL the associated real results are considered acceptable. In the IHSS Group 900-11 data none of the field blank results multiplied by 10 exceeded their WRW ALs. Therefore, blank contamination did not adversely impact project decisions.

Sample Matrix Spike Evaluation

The minimum and maximum MS results are summarized by chemical for the entire project in Table 11. For inorganics, the associated maximum sample results were divided by the lowest percent recovery for each analyte. If the resulting number was less than the AL, decisions were not impacted, and no action was taken. For this project, all results were acceptable with the exception of aluminum, chromium, lead, manganese, and vanadium. Project decisions were not impacted because results for these metals were less than the WRW ALs, and in most cases less than background means plus two standard deviations.

12.1.2 Precision

Precision is measured by evaluating both MSDs and field duplicates, as described in the following sections.

Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSDs, which is summarized in Table 12. Analytes with the highest relative percent differences (RPDs) were reviewed by comparing the highest sample result to the WRW AL. For analytes with RPDs greater than 35 percent, if the highest sample concentrations were sufficiently below the AL, no further action is needed. For this project, the review indicated decisions were not impacted.

Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process. The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent. As indicated in Table 13, all field duplicate frequencies were greater than 5 percent.

The RPD values indicate how much variation exists in the field duplicate analyses. For the DQA, the highest RPD values (Table 14) were reviewed. The highest concentrations for analytes with high RPD values (>35 percent) were multiplied by three, and the resulting values were compared to the ALs. Plutonium and americium RPDs were high but this is expected for the characterization records that were remediated. Some of the metal RPDs were also high, however project decisions were not impacted because the results were very low.

12.1.3 Completeness

Based on original project DQOs, a minimum of 25 percent of ER Program analytical (and radiological) results must be formally verified and validated. Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements. Table 15 shows the number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analyte group. Because the frequency of validation is within project quality requirements and in compliance with the RFETS validation goal of 25 percent of all analytical records, the results indicate that these data are adequate.

Thirty-six method 6200 results were rejected. However, project decisions were not impacted because project decisions were based on method 6010 results.

Sensitivity

RLs, in units of pCi/g for radionuclides, were compared with RFCA ALs. Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions. "Adequate" sensitivity is defined as a RL less than an analyte's associated AL, typically less than one-half the AL.

12.2 Summary of Data Quality

Thirty-six method 6200 results were rejected. However, project decisions were not impacted because project decisions were based on method 6010 results.

Compliance with the project quality requirements and RFETS validation goal of 25 percent of all analytical records indicates these data are adequate. If additional V&V information is received, IHSS Group 900-11 records will be updated in the SWD. Data qualified as a result of additional data will be assessed as part of the CRA process. Data collected and used for IHSS Group 900-11 are adequate for decision making.

13.0 PROJECT CONCLUSIONS

This accelerated action resulted in the removal of radioactively contaminated soil from IHSS 900-155 in Group 900-11 and hot spots in OU 1. No soil exceeding the plutonium-239/240 WRW AL remains within 3 feet of the surface. IHSS 900-140 was characterized for metals, specifically lithium. All metal concentrations in soil were less than WRW ALs.

Results of the accelerated action justify NFAA. Justification is based on:

- Removal of soil with plutonium-239/240 activities greater than WRW ALs to a depth of 3 feet at IHSS 900-155;
- Confirmation sampling results are less than WRW ALs;
- Results of the SSRS; and
- Results of the Stewardship Evaluation.

14.0 REFERENCES

Barker, C.J., 1982, Removal of Plutonium-Contaminated Soil from the 903 Pad Lip Area During 1976 and 1978, Rockwell International, Rocky Flats Plant, Golden, Colorado, January.

DOE, 1992-2003, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, 1995, Final Phase II RFI/RI Report, 903 Pad, Mound, and East Trenches Area, Operable Unit No.2, Rocky Flats Plant, Golden, Colorado, October.

DOE, 1998, Annual Update for the Historical Release Reports for the Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 1999a, Annual Update for the Historical Release Reports for the Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 1999b, Characterization Report for the 903 Drum Storage Area, 903 Lip Area, and Americium Zone, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 1999c, Quality Assurance, Order 414.1A.

DOE, 2002a, Environmental Restoration RFCA Standard Operating Protocol Notification #02-09, Rocky Flats Environmental Technology Site, Golden, Colorado, October.

DOE, 2002b, Buffer Zone Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, 2002c, Second Quarter RFCA Groundwater Monitoring Report, Rocky Flats Environmental Technology Site, Golden, Colorado, November.

DOE, 2003a, Environmental Restoration RFCA Standard Operating Protocol Notification #03-07, Rocky Flats Environmental Technology Site, Golden, Colorado, August.

DOE, 2003b, Buffer Zone Sampling and Analysis Plan FY04 Addendum #BZ-04-11, IHSS Group 900-11, PAC SE-1602 (East Firing Range), Rocky Flats Environmental Technology Site, Golden, Colorado, January.

DOE, 2003c, Annual Update for the Historical Release Reports for the Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2003d, Automated Surface Water Monitoring Report, Water Year 2002, Rocky Flats Environmental Technology Site, Golden, Colorado, November.

DOE, 2004a, Interim Measure/Interim Remedial Action (IM/IRA) for IHSS Group 900-11 (903 Lip Area and Vicinity, the Windblown Area, and Surface Soil in Operable Unit (OU) 1 [881 Hillside]), Rocky Flats Environmental Technology Site, Golden, Colorado, August.

DOE, 2004b, Closeout Report IHSS Group 900-11, IHSS 112 903 Pad (Drum Storage Area) Rocky Flats Environmental Technology Site, Golden, Colorado, January.

DOE, CDPHE, and EPA, 2003, Modifications to the Rocky Flats Cleanup Agreement Attachment, U.S. Department of Energy, Colorado Department of Public Health and Environment, and U.S. Environmental Protection Agency, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

EPA, 1994a, Guidance for the Data Quality Objective Process, QA/G-4.

EPA 1994b, USEPA Contract Laboratory Program – National Functional Guidelines for Inorganic Data Review, 540/R-94/013.

EPA, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9.

DOE, 1999, Annual Update for the Historical Release Report, August 1, 1998 – August 1, 1999, September.

EPA, 2002, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation FY02 Notification #02-09 Approval Letter, October 9.

Hobbs, 1972, Report No. 317-72-174 Nickel Carbonyl Disposal, Rocky Flats Plan, Golden, Colorado.

K-H, 2002a, General Guidelines for Data Verification and Validate, DA-GR01-v2.

K-H, 2002b, V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2.

Lockheed-Martin, 1997, Evaluation of Radiological Data Usability, ES/ER/MS-5.

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Table 1
IHSS Group 900-11 Decision Document History

IHSS/PAC	NFAA Justification	Sampling	Remediation
IHSS 112 – 903 Pad	NA	NA	ER RSOP Notification 02-09 (DOE 2002a)
IHSS 900-155 – Inner Lip and Parts of the Outer Lip	NA	BZSAP Addendum BZ-04-01 (DOE 2003a)	ER RSOP Notification 03-07 (DOE 2003b)
IHSS 900-155 – Outer Lip	NA	NA	Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, The Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside] (DOE 2004a)
IHSS 900-140 – Hazardous Disposal Area	1998 Annual Update to the Historical Release Report (DOE 1998) 2003 Annual Update to the Historical Release Report (DOE 2003d)	BZ-04-01 (DOE 2003b)	Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, The Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside] (DOE 2004a)
PAC SE-1602 – East Firing Range	NA	BZSAP Addendum BZ-04-11 (DOE 2003c)	Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, The Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside] (DOE 2004a)

Table 2
IHSS 900-155 Confirmation Sampling Results

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CK33-000	748038.042	2084769.045	0.2	0.4	Plutonium	U	4.613	50	0.066	pCi/g
CK33-001	748061.978	2084775.953	0.1	0.3	Plutonium	U	5.532	50	0.020	pCi/g
CN37-014	748936.821	2085507.231	1.5	2	Americium-241		2.530	76	0.020	pCi/g
CN37-014	748936.821	2085507.231	1.5	2	Plutonium-239/240		15.500	50	0.020	pCi/g
CN37-014	748936.821	2085507.231	1.5	2	Uranium-235		0.153	8	0.120	pCi/g
CN37-014	748936.821	2085507.231	1.5	2	Uranium-238		1.553	351	1.490	pCi/g
CN37-015	748892.682	2085508.257	1	1.5	Americium-241		0.885	76	0.020	pCi/g
CN37-015	748892.682	2085508.257	1	1.5	Plutonium-239/240		5.042	50	0.020	pCi/g
CN37-016	748850.595	2085518.522	0.5	1.5	Americium-241		2.403	76	0.020	pCi/g
CN37-016	748850.595	2085518.522	0.5	1.5	Plutonium-239/240		13.697	50	0.020	pCi/g
CN37-016	748850.595	2085518.522	0.5	1.5	Uranium-235		0.146	8	0.120	pCi/g
CN37-016	748850.595	2085518.522	0.5	1.5	Uranium-238		2.113	351	1.490	pCi/g
CN37-017	748809.535	2085517.496	0.9	1.4	Americium-241		0.888	76	0.020	pCi/g
CN37-017	748809.535	2085517.496	0.9	1.4	Plutonium-239/240		5.061	50	0.020	pCi/g
CN37-017	748809.535	2085517.496	0.9	1.4	Uranium-235		0.139	8	0.120	pCi/g
CN37-017	748809.535	2085517.496	0.9	1.4	Uranium-238		1.949	351	1.490	pCi/g
CN38-024	749144.176	2085507.231	0.8	1.3	Plutonium-239/240	U	1.908	50	0.020	pCi/g
CN38-024	749144.176	2085507.231	0.8	1.3	Uranium-234		4.259	300	2.640	pCi/g
CN38-024	749144.176	2085507.231	0.8	1.3	Uranium-235		0.210	8	0.120	pCi/g
CN38-024	749144.176	2085507.231	0.8	1.3	Uranium-238		4.259	351	1.490	pCi/g
CN38-025	749104.142	2085508.257	0.8	1.3	Americium-241		1.289	76	0.020	pCi/g
CN38-025	749104.142	2085508.257	0.8	1.3	Plutonium-239/240		7.347	50	0.020	pCi/g
CN38-025	749104.142	2085508.257	0.8	1.3	Uranium-234		4.438	300	2.640	pCi/g
CN38-025	749104.142	2085508.257	0.8	1.3	Uranium-235		0.247	8	0.120	pCi/g
CN38-025	749104.142	2085508.257	0.8	1.3	Uranium-238		4.438	351	1.490	pCi/g
CN38-026	749061.029	2085508.257	0.9	1.4	Americium-241		0.810	76	0.020	pCi/g
CN38-026	749061.029	2085508.257	0.9	1.4	Plutonium-239/240		4.614	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CN38-026	749061.029	2085508.257	0.9	1.4	Uranium-234		3.967	300	2.640	pCi/g
CN38-026	749061.029	2085508.257	0.9	1.4	Uranium-235		0.189	8	0.120	pCi/g
CN38-026	749061.029	2085508.257	0.9	1.4	Uranium-238		3.967	351	1.490	pCi/g
CN38-028	748978.908	2085508.257	1	1.5	Americium-241		0.729	76	0.020	pCi/g
CN38-028	748978.908	2085508.257	1	1.5	Plutonium-239/240		4.154	50	0.020	pCi/g
CN38-028	748978.908	2085508.257	1	1.5	Uranium-238		1.548	351	1.490	pCi/g
CN38-027	749018.942	2085507.231	1	1.5	Americium-241		1.972	76	0.020	pCi/g
CN38-027	749018.942	2085507.231	1	1.5	Plutonium-239/240		11.240	50	0.020	pCi/g
CN38-027	749018.942	2085507.231	1	1.5	Uranium-234		4.661	300	2.640	pCi/g
CN38-027	749018.942	2085507.231	1	1.5	Uranium-235		0.316	8	0.120	pCi/g
CN38-027	749018.942	2085507.231	1	1.5	Uranium-238		4.661	351	1.490	pCi/g
CN39-008	749271.462	2085507.231	0	0.5	Americium-241		0.522	76	0.023	pCi/g
CN39-008	749271.462	2085507.231	0	0.5	Plutonium-239/240		2.975	50	0.066	pCi/g
CN39-008	749271.462	2085507.231	0	0.5	Uranium-234		4.763	300	2.253	pCi/g
CN39-008	749271.462	2085507.231	0	0.5	Uranium-235		0.231	8	0.094	pCi/g
CN39-008	749271.462	2085507.231	0	0.5	Uranium-238		4.763	351	2.000	pCi/g
CN39-009	749229.376	2085508.257	0.5	1	Americium-241		1.907	76	0.020	pCi/g
CN39-009	749229.376	2085508.257	0.5	1	Plutonium-239/240		10.870	50	0.020	pCi/g
CN39-009	749229.376	2085508.257	0.5	1	Uranium-235		0.199	8	0.120	pCi/g
CN39-010	749187.289	2085508.257	0.6	1.1	Americium-241		0.470	76	0.020	pCi/g
CN39-010	749187.289	2085508.257	0.6	1.1	Plutonium-239/240		2.678	50	0.020	pCi/g
CN39-010	749187.289	2085508.257	0.6	1.1	Uranium-235		0.154	8	0.120	pCi/g
CN40-002	749364.874	2085507.231	0	0.5	Americium-241		0.559	76	0.023	pCi/g
CN40-002	749364.874	2085507.231	0	0.5	Plutonium-239/240		3.186	50	0.066	pCi/g
CN40-002	749364.874	2085507.231	0	0.5	Uranium-234		2.876	300	2.253	pCi/g
CN40-002	749364.874	2085507.231	0	0.5	Uranium-235		0.168	8	0.094	pCi/g
CN40-002	749364.874	2085507.231	0	0.5	Uranium-238		2.876	351	2.000	pCi/g
CO35-001	748520.998	2085683.051	0.9	1.1	Americium-241		0.673	76	0.020	pCi/g
CO35-001	748520.998	2085683.051	0.9	1.1	Plutonium-239/240		3.838	50	0.020	pCi/g
CO35-001	748520.998	2085683.051	0.9	1.1	Uranium-235		0.207	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CO35-001	748520.998	2085683.051	0.9	1.1	Uranium-238		1.924	351	1.490	pCi/g
CO36-013	748721.372	2085729.785	0.1	0.3	Americium-241		8.751	76	0.023	pCi/g
CO36-013	748721.372	2085729.785	0.1	0.3	Plutonium-239/240		49.881	50	0.066	pCi/g
CO36-013	748721.372	2085729.785	0.1	0.3	Uranium-235		0.172	8	0.094	pCi/g
CO36-014	748691.583	2085700.139	0.1	0.3	Americium-241		4.713	76	0.023	pCi/g
CO36-014	748691.583	2085700.139	0.1	0.3	Plutonium-239/240		26.864	50	0.066	pCi/g
CO36-014	748691.583	2085700.139	0.1	0.3	Uranium-235		0.185	8	0.094	pCi/g
CO36-015	748750.926	2085699.92	0.3	0.5	Americium-241		3.570	76	0.023	pCi/g
CO36-015	748750.926	2085699.92	0.3	0.5	Plutonium-239/240		20.349	50	0.066	pCi/g
CO36-015	748750.926	2085699.92	0.3	0.5	Uranium-235		0.136	8	0.094	pCi/g
CO36-016	748721.188	2085670.327	0.3	0.5	Americium-241		4.462	76	0.023	pCi/g
CO36-016	748721.188	2085670.327	0.3	0.5	Plutonium-239/240		25.433	50	0.066	pCi/g
CO36-016	748721.188	2085670.327	0.3	0.5	Uranium-235		0.148	8	0.094	pCi/g
CO37-027	748825.006	2085702.998	0.5	1	Americium-241		0.802	76	0.020	pCi/g
CO37-027	748825.006	2085702.998	0.5	1	Plutonium-239/240		4.574	50	0.020	pCi/g
CO37-027	748825.006	2085702.998	0.5	1	Uranium-234		4.900	300	2.640	pCi/g
CO37-027	748825.006	2085702.998	0.5	1	Uranium-235		0.219	8	0.120	pCi/g
CO37-027	748825.006	2085702.998	0.5	1	Uranium-238		4.900	351	1.490	pCi/g
CO37-029	748830.025	2085707.965	0.5	1	Plutonium-239/240	U	3.975	50	0.020	pCi/g
CO37-029	748830.025	2085707.965	0.5	1	Uranium-234		3.274	300	2.640	pCi/g
CO37-029	748830.025	2085707.965	0.5	1	Uranium-238		3.274	351	1.490	pCi/g
CO37-031	748829.99	2085697.955	0.5	1	Americium-241		1.079	76	0.020	pCi/g
CO37-031	748829.99	2085697.955	0.5	1	Plutonium-239/240		6.150	50	0.020	pCi/g
CO37-033	748851.419	2085560.574	1	1.5	Americium-241		0.997	76	0.020	pCi/g
CO37-033	748851.419	2085560.574	1	1.5	Plutonium-239/240		5.683	50	0.020	pCi/g
CO37-033	748851.419	2085560.574	1	1.5	Uranium-235		0.146	8	0.120	pCi/g
CO37-033	748851.419	2085560.574	1	1.5	Uranium-238		1.561	351	1.490	pCi/g
CO37-034	748852.561	2085603.37	1	1.5	Americium-241		3.930	76	0.020	pCi/g
CO37-034	748852.561	2085603.37	1	1.5	Plutonium-239/240		24.100	50	0.020	pCi/g
CO37-034	748852.561	2085603.37	1	1.5	Uranium-235		0.209	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CO37-034	748852.561	2085603.37	1	1.5	Uranium-238		1.798	351	1.490	pCi/g
CO37-037	748809.194	2085728.905	0.9	1.4	Americium-241		1.350	76	0.020	pCi/g
CO37-037	748809.194	2085728.905	0.9	1.4	Plutonium-239/240		7.695	50	0.020	pCi/g
CO37-038	748809.765	2085686.109	1.7	2.2	Americium-241		1.614	76	0.020	pCi/g
CO37-038	748809.765	2085686.109	1.7	2.2	Plutonium-239/240		9.200	50	0.020	pCi/g
CO37-038	748809.765	2085686.109	1.7	2.2	Uranium-234		3.704	300	2.640	pCi/g
CO37-038	748809.765	2085686.109	1.7	2.2	Uranium-235		0.239	8	0.120	pCi/g
CO37-038	748809.765	2085686.109	1.7	2.2	Uranium-238		3.704	351	1.490	pCi/g
CO37-039	748809.194	2085645.025	0.8	1.3	Americium-241		1.479	76	0.020	pCi/g
CO37-039	748809.194	2085645.025	0.8	1.3	Plutonium-239/240		8.430	50	0.020	pCi/g
CO37-039	748809.194	2085645.025	0.8	1.3	Uranium-234		2.896	300	2.640	pCi/g
CO37-039	748809.194	2085645.025	0.8	1.3	Uranium-235		0.199	8	0.120	pCi/g
CO37-039	748809.194	2085645.025	0.8	1.3	Uranium-238		2.896	351	1.490	pCi/g
CO37-040	748809.765	2085602.799	0.5	1	Americium-241		0.319	76	0.020	pCi/g
CO37-040	748809.765	2085602.799	0.5	1	Plutonium-239/240		1.819	50	0.020	pCi/g
CO37-040	748809.765	2085602.799	0.5	1	Uranium-238		1.580	351	1.490	pCi/g
CO37-044	748934.768	2085550.344	1.2	1.7	Americium-241		2.237	76	0.020	pCi/g
CO37-044	748934.768	2085550.344	1.2	1.7	Plutonium-239/240		12.751	50	0.020	pCi/g
CO37-044	748934.768	2085550.344	1.2	1.7	Uranium-238		2.206	351	1.490	pCi/g
CO37-045	748893.708	2085550.344	1.3	1.8	Americium-241		3.307	76	0.020	pCi/g
CO37-045	748893.708	2085550.344	1.3	1.8	Plutonium-239/240		18.850	50	0.020	pCi/g
CO37-045	748893.708	2085550.344	1.3	1.8	Uranium-235		0.134	8	0.120	pCi/g
CO37-046	748809.535	2085559.582	1.1	1.6	Americium-241		0.621	76	0.020	pCi/g
CO37-046	748809.535	2085559.582	1.1	1.6	Plutonium-239/240		3.541	50	0.020	pCi/g
CO37-046	748809.535	2085559.582	1.1	1.6	Uranium-234		4.124	300	2.640	pCi/g
CO37-046	748809.535	2085559.582	1.1	1.6	Uranium-235		0.225	8	0.120	pCi/g
CO37-046	748809.535	2085559.582	1.1	1.6	Uranium-238		4.124	351	1.490	pCi/g
CO37-051	748850.723	2085644.795	0.5	0.6	Americium-241		1.927	76	0.020	pCi/g
CO37-051	748850.723	2085644.795	0.5	0.6	Plutonium-239/240		10.984	50	0.020	pCi/g
CO37-051	748850.723	2085644.795	0.5	0.6	Uranium-235		0.142	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CO37-054	748852.561	2085686.109	1	1.1	Americium-241		2.799	76	0.020	pCi/g
CO37-054	748852.561	2085686.109	1	1.1	Plutonium-239/240		15.954	50	0.020	pCi/g
CO37-054	748852.561	2085686.109	1	1.1	Uranium-238		1.666	351	1.490	pCi/g
CO37-055	748851.99	2085729.476	0.5	0.6	Americium-241		7.191	76	0.020	pCi/g
CO37-055	748851.99	2085729.476	0.5	0.6	Plutonium-239/240		40.989	50	0.020	pCi/g
CO37-067	748780.647	2085729.673	1	1.2	Americium-241		3.059	76	0.020	pCi/g
CO37-067	748780.647	2085729.673	1	1.2	Plutonium-239/240		17.436	50	0.020	pCi/g
CO37-067	748780.647	2085729.673	1	1.2	Uranium-238		2.157	351	1.490	pCi/g
CO37-068	748780.582	2085670.209	0.1	0.3	Plutonium-239/240	U	-0.003	50	0.020	pCi/g
CO37-068	748780.582	2085670.209	0.1	0.3	Uranium-234		4.903	300	2.253	pCi/g
CO37-068	748780.582	2085670.209	0.1	0.3	Uranium-235		0.190	8	0.094	pCi/g
CO37-068	748780.582	2085670.209	0.1	0.3	Uranium-238		4.903	351	2.000	pCi/g
CO38-066	749064	2085554.993	0.5	1	Americium-241		2.602	76	0.020	pCi/g
CO38-066	749064	2085554.993	0.5	1	Plutonium-239/240		14.831	50	0.020	pCi/g
CO38-067	749064	2085550.003	0.5	1	Americium-241		1.676	76	0.020	pCi/g
CO38-067	749064	2085550.003	0.5	1	Plutonium-239/240		9.553	50	0.020	pCi/g
CO38-070	749145.202	2085549.317	1	1.5	Americium-241		0.514	76	0.020	pCi/g
CO38-070	749145.202	2085549.317	1	1.5	Plutonium-239/240		2.928	50	0.020	pCi/g
CO38-070	749145.202	2085549.317	1	1.5	Uranium-235		0.185	8	0.120	pCi/g
CO38-071	749104.142	2085550.344	1.2	1.7	Americium-241		0.931	76	0.020	pCi/g
CO38-071	749104.142	2085550.344	1.2	1.7	Plutonium-239/240		7.340	50	0.020	pCi/g
CO38-071	749104.142	2085550.344	1.2	1.7	Uranium-235		0.140	8	0.120	pCi/g
CO38-071	749104.142	2085550.344	1.2	1.7	Uranium-238		1.867	351	1.490	pCi/g
CO38-072	749019.968	2085549.317	1.3	1.8	Americium-241		7.709	76	0.020	pCi/g
CO38-072	749019.968	2085549.317	1.3	1.8	Plutonium-239/240		43.941	50	0.020	pCi/g
CO38-072	749019.968	2085549.317	1.3	1.8	Uranium-235		0.164	8	0.120	pCi/g
CO38-073	748976.855	2085550.344	1	1.5	Americium-241		1.040	76	0.020	pCi/g
CO38-073	748976.855	2085550.344	1	1.5	Plutonium-239/240		5.928	50	0.020	pCi/g
CO38-073	748976.855	2085550.344	1	1.5	Uranium-235		0.201	8	0.120	pCi/g
CO38-075	749061.579	2085550.649	1.5	1.6	Americium-241		4.260	76	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CO38-075	749061.579	2085550.649	1.5	1.6	Plutonium-239/240		21.500	50	0.020	pCi/g
CO38-075	749061.579	2085550.649	1.5	1.6	Uranium-235		0.125	8	0.120	pCi/g
CO38-077	749060.832	2085542.981	1.5	1.6	Americium-241		3.310	76	0.020	pCi/g
CO38-077	749060.832	2085542.981	1.5	1.6	Plutonium-239/240		15.300	50	0.020	pCi/g
CO38-077	749060.832	2085542.981	1.5	1.6	Uranium-238		1.758	351	1.490	pCi/g
CO39-031	749273.515	2085549.317	0.8	1.3	Americium-241		0.849	76	0.020	pCi/g
CO39-031	749273.515	2085549.317	0.8	1.3	Plutonium-239/240		4.838	50	0.020	pCi/g
CO39-031	749273.515	2085549.317	0.8	1.3	Uranium-234		6.102	300	2.640	pCi/g
CO39-031	749273.515	2085549.317	0.8	1.3	Uranium-235		0.332	8	0.120	pCi/g
CO39-031	749273.515	2085549.317	0.8	1.3	Uranium-238		6.102	351	1.490	pCi/g
CO39-032	749271.462	2085603.722	0.8	1.3	Americium-241		4.162	76	0.020	pCi/g
CO39-032	749271.462	2085603.722	0.8	1.3	Plutonium-239/240		23.723	50	0.020	pCi/g
CO39-033	749271.462	2085645.809	0.8	1.3	Americium-241		1.375	76	0.020	pCi/g
CO39-033	749271.462	2085645.809	0.8	1.3	Plutonium-239/240		7.838	50	0.020	pCi/g
CO39-034	749271.462	2085685.843	0.8	1.3	Americium-241		2.388	76	0.020	pCi/g
CO39-034	749271.462	2085685.843	0.8	1.3	Plutonium-239/240		13.612	50	0.020	pCi/g
CO39-035	749268.383	2085728.956	0.8	1.3	Americium-241		3.580	76	0.020	pCi/g
CO39-035	749268.383	2085728.956	0.8	1.3	Plutonium-239/240		20.406	50	0.020	pCi/g
CO39-035	749268.383	2085728.956	0.8	1.3	Uranium-234		2.774	300	2.640	pCi/g
CO39-035	749268.383	2085728.956	0.8	1.3	Uranium-235		0.171	8	0.120	pCi/g
CO39-035	749268.383	2085728.956	0.8	1.3	Uranium-238		2.774	351	1.490	pCi/g
CO39-036	749229.376	2085549.317	1	1.5	Americium-241		0.341	76	0.020	pCi/g
CO39-036	749229.376	2085549.317	1	1.5	Plutonium-239/240		1.610	50	0.020	pCi/g
CO39-036	749229.376	2085549.317	1	1.5	Uranium-234		4.417	300	2.640	pCi/g
CO39-036	749229.376	2085549.317	1	1.5	Uranium-235		0.234	8	0.120	pCi/g
CO39-036	749229.376	2085549.317	1	1.5	Uranium-238		4.417	351	1.490	pCi/g
CO39-037	749186.262	2085549.317	1.2	1.7	Americium-241		1.239	76	0.020	pCi/g
CO39-037	749186.262	2085549.317	1.2	1.7	Plutonium-239/240		7.062	50	0.020	pCi/g
CO39-037	749186.262	2085549.317	1.2	1.7	Uranium-234		3.958	300	2.640	pCi/g
CO39-037	749186.262	2085549.317	1.2	1.7	Uranium-235		0.266	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CO39-037	749186.262	2085549.317	1.2	1.7	Uranium-238		3.958	351	1.490	pCi/g
CO40-004	749363.848	2085550.344	0.0	0.5	Plutonium-239/240	U	4.014	50	0.066	pCi/g
CO40-004	749363.848	2085550.344	0	0.5	Uranium-234		4.124	300	2.253	pCi/g
CO40-004	749363.848	2085550.344	0	0.5	Uranium-235		0.210	8	0.094	pCi/g
CO40-004	749363.848	2085550.344	0	0.5	Uranium-238		4.124	351	2.000	pCi/g
CO40-005	749364.874	2085591.404	0.0	0.5	Plutonium-239/240	U	1.015	50	0.066	pCi/g
CO40-005	749364.874	2085591.404	0	0.5	Uranium-235		0.236	8	0.094	pCi/g
CO40-006	749363.848	2085633.491	0.0	0.5	Plutonium-239/240	U	1.414	50	0.066	pCi/g
CO40-006	749363.848	2085633.491	0	0.5	Uranium-234		3.691	300	2.253	pCi/g
CO40-006	749363.848	2085633.491	0	0.5	Uranium-235		0.183	8	0.094	pCi/g
CO40-006	749363.848	2085633.491	0	0.5	Uranium-238		3.691	351	2.000	pCi/g
CO40-007	749364.874	2085676.604	0.0	0.5	Plutonium-239/240	U	2.309	50	0.066	pCi/g
CO40-007	749364.874	2085676.604	0	0.5	Uranium-234		4.069	300	2.253	pCi/g
CO40-007	749364.874	2085676.604	0	0.5	Uranium-235		0.192	8	0.094	pCi/g
CO40-007	749364.874	2085676.604	0	0.5	Uranium-238		4.069	351	2.000	pCi/g
CO40-008	749364.874	2085718.691	0	0.5	Americium-241		0.649	76	0.023	pCi/g
CO40-008	749364.874	2085718.691	0	0.5	Plutonium-239/240		3.699	50	0.066	pCi/g
CP35-016	748483.864	2085908.318	0.6	0.8	Plutonium-239/240	U	0.844	50	0.020	pCi/g
CP35-016	748483.864	2085908.318	0.6	0.8	Uranium-238		1.953	351	1.490	pCi/g
CP35-017	748454.337	2085878.636	0.5	0.7	Plutonium-239/240	U	2.184	50	0.020	pCi/g
CP35-017	748454.337	2085878.636	0.5	0.7	Uranium-235		0.249	8	0.120	pCi/g
CP35-018	748543.43	2085908.229	1.2	1.4	Plutonium-239/240	U	1.917	50	0.020	pCi/g
CP35-018	748543.43	2085908.229	1.2	1.4	Uranium-235		0.150	8	0.120	pCi/g
CP35-019	748513.766	2085878.589	0.7	0.9	Plutonium-239/240	U	2.108	50	0.020	pCi/g
CP35-019	748513.766	2085878.589	0.7	0.9	Uranium-235		0.163	8	0.120	pCi/g
CP35-020	748483.895	2085848.899	0.7	0.9	Plutonium-239/240	U	1.878	50	0.020	pCi/g
CP35-020	748483.895	2085848.899	0.7	0.9	Uranium-235		0.204	8	0.120	pCi/g
CP35-020	748483.895	2085848.899	0.7	0.9	Uranium-238		1.900	351	1.490	pCi/g
CP35-021	748543.195	2085848.778	1.4	1.6	Americium-241		7.410	76	0.020	pCi/g
CP35-021	748543.195	2085848.778	1.4	1.6	Plutonium-239/240		42.237	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CP35-021	748543.195	2085848.778	1.4	1.6	Uranium-238		2.365	351	1.490	pCi/g
CP35-022	748513.613	2085819.159	1.4	1.6	Plutonium-239/240		0.199	50	0.020	pCi/g
CP35-023	748543.297	2085789.474	0.1	0.3	Americium-241		4.509	76	0.023	pCi/g
CP35-023	748543.297	2085789.474	0.1	0.3	Plutonium-239/240		25.701	50	0.066	pCi/g
CP35-023	748543.297	2085789.474	0.1	0.3	Uranium-234		3.718	300	2.253	pCi/g
CP35-023	748543.297	2085789.474	0.1	0.3	Uranium-235		0.219	8	0.094	pCi/g
CP35-023	748543.297	2085789.474	0.1	0.3	Uranium-238		3.718	351	2.000	pCi/g
CP35-024	748513.305	2085759.978	0.4	0.6	Americium-241		0.804	76	0.020	pCi/g
CP35-024	748513.305	2085759.978	0.4	0.6	Plutonium-239/240		4.585	50	0.020	pCi/g
CP35-024	748513.305	2085759.978	0.4	0.6	Uranium-234		4.286	300	2.640	pCi/g
CP35-024	748513.305	2085759.978	0.4	0.6	Uranium-235		0.291	8	0.120	pCi/g
CP35-024	748513.305	2085759.978	0.4	0.6	Uranium-238		4.286	351	1.490	pCi/g
CP36-029	748602.904	2085908.006	1.3	1.9	Plutonium-239/240	U	2.204	50	0.020	pCi/g
CP36-029	748602.904	2085908.006	1.3	1.9	Uranium-235		0.140	8	0.120	pCi/g
CP36-030	748572.924	2085878.579	3.3	3.5	Americium-241		2.420	76	0.020	pCi/g
CP36-030	748572.924	2085878.579	3.3	3.5	Plutonium-239/240		12.400	50	0.020	pCi/g
CP36-031	748662.294	2085908.104	1.8	2.0	Plutonium-239/240	U	2.592	50	0.020	pCi/g
CP36-031	748662.294	2085908.104	1.8	2	Uranium-235		0.226	8	0.120	pCi/g
CP36-031	748662.294	2085908.104	1.8	2	Uranium-238		1.776	351	1.490	pCi/g
CP36-032	748632.447	2085878.345	1.6	1.8	Plutonium-239/240	U	2.009	50	0.020	pCi/g
CP36-032	748632.447	2085878.345	1.6	1.8	Uranium-235		0.195	8	0.120	pCi/g
CP36-032	748632.447	2085878.345	1.6	1.8	Uranium-238		1.845	351	1.490	pCi/g
CP36-033	748721.629	2085907.881	1.5	1.7	Americium-241		0.487	76	0.020	pCi/g
CP36-033	748721.629	2085907.881	1.5	1.7	Plutonium-239/240		2.773	50	0.020	pCi/g
CP36-033	748721.629	2085907.881	1.5	1.7	Uranium-235		0.131	8	0.120	pCi/g
CP36-034	748691.821	2085878.23	1.6	1.8	Plutonium-239/240	U	0.581	50	0.020	pCi/g
CP36-034	748691.821	2085878.23	1.6	1.8	Uranium-238		1.928	351	1.490	pCi/g
CP36-035	748751.294	2085878.24	1	1.2	Plutonium-239/240		0.361	50	0.020	pCi/g
CP36-035	748751.294	2085878.24	1	1.2	Uranium-234		3.494	300	2.640	pCi/g
CP36-035	748751.294	2085878.24	1	1.2	Uranium-235		0.199	8	0.120	pCi/g

Draft Closeout Report for IHSS Group 900-11, IHSS 140 and IHSS 155

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CP36-035	748751.294	2085878.24	1	1.2	Uranium-238		3.494	351	1.490	pCi/g
CP36-036	748721.431	2085848.626	1.2	1.4	Americium-241		0.433	76	0.020	pCi/g
CP36-036	748721.431	2085848.626	1.2	1.4	Plutonium-239/240		2.467	50	0.020	pCi/g
CP36-037	748691.797	2085818.84	0.5	0.7	Americium-241		1.630	76	0.020	pCi/g
CP36-037	748691.797	2085818.84	0.5	0.7	Plutonium-239/240		9.291	50	0.020	pCi/g
CP36-037	748691.797	2085818.84	0.5	0.7	Uranium-235		0.272	8	0.120	pCi/g
CP36-038	748661.978	2085789.21	0.3	0.5	Americium-241		0.267	76	0.023	pCi/g
CP36-038	748661.978	2085789.21	0.3	0.5	Plutonium-239/240		1.524	50	0.066	pCi/g
CP36-038	748661.978	2085789.21	0.3	0.5	Uranium-234		2.847	300	2.253	pCi/g
CP36-038	748661.978	2085789.21	0.3	0.5	Uranium-235		0.241	8	0.094	pCi/g
CP36-038	748661.978	2085789.21	0.3	0.5	Uranium-238		2.847	351	2.000	pCi/g
CP36-039	748751.135	2085818.826	0.5	0.7	Americium-241		2.006	76	0.020	pCi/g
CP36-039	748751.135	2085818.826	0.5	0.7	Plutonium-239/240		11.434	50	0.020	pCi/g
CP36-040	748721.422	2085789.162	0.5	0.7	Americium-241		5.434	76	0.020	pCi/g
CP36-040	748721.422	2085789.162	0.5	0.7	Plutonium-239/240		30.974	50	0.020	pCi/g
CP36-040	748721.422	2085789.162	0.5	0.7	Uranium-235		0.140	8	0.120	pCi/g
CP36-040	748721.422	2085789.162	0.5	0.7	Uranium-238		2.248	351	1.490	pCi/g
CP36-041	748691.635	2085759.491	0.3	0.5	Americium-241		5.134	76	0.023	pCi/g
CP36-041	748691.635	2085759.491	0.3	0.5	Plutonium-239/240		29.264	50	0.066	pCi/g
CP36-041	748691.635	2085759.491	0.3	0.5	Uranium-234		3.058	300	2.253	pCi/g
CP36-041	748691.635	2085759.491	0.3	0.5	Uranium-235		0.205	8	0.094	pCi/g
CP36-041	748691.635	2085759.491	0.3	0.5	Uranium-238		3.058	351	2.000	pCi/g
CP36-042	748750.97	2085759.345	1.3	1.5	Americium-241		0.462	76	0.020	pCi/g
CP36-042	748750.97	2085759.345	1.3	1.5	Plutonium-239/240		2.633	50	0.020	pCi/g
CP36-042	748750.97	2085759.345	1.3	1.5	Uranium-235		0.141	8	0.120	pCi/g
CP37-046	748851.99	2085770.56	1.5	1.6	Americium-241		0.317	76	0.020	pCi/g
CP37-046	748851.99	2085770.56	1.5	1.6	Plutonium-239/240		1.804	50	0.020	pCi/g
CP37-046	748851.99	2085770.56	1.5	1.6	Uranium-235		0.140	8	0.120	pCi/g
CP37-047	748851.99	2085813.356	1	1.1	Americium-241		1.928	76	0.020	pCi/g
CP37-047	748851.99	2085813.356	1	1.1	Plutonium-239/240		10.990	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CP37-047	748851.99	2085813.356	1	1.1	Uranium-238		1.583	351	1.490	pCi/g
CP37-048	748851.419	2085855.011	1	1.1	Americium-241		3.642	76	0.020	pCi/g
CP37-048	748851.419	2085855.011	1	1.1	Plutonium-239/240		20.759	50	0.020	pCi/g
CP37-048	748851.419	2085855.011	1	1.1	Uranium-235		0.150	8	0.120	pCi/g
CP37-049	748851.99	2085896.666	1.5	1.6	Americium-241		0.604	76	0.020	pCi/g
CP37-049	748851.99	2085896.666	1.5	1.6	Plutonium-239/240		3.443	50	0.020	pCi/g
CP37-049	748851.99	2085896.666	1.5	1.6	Uranium-235		0.202	8	0.120	pCi/g
CP37-050	748809.765	2085896.095	0.5	0.6	Americium-241		4.990	76	0.020	pCi/g
CP37-050	748809.765	2085896.095	0.5	0.6	Plutonium-239/240		29.300	50	0.020	pCi/g
CP37-050	748809.765	2085896.095	0.5	0.6	Uranium-238		2.163	351	1.490	pCi/g
CP37-051	748810.335	2085855.011	0.5	0.6	Americium-241		1.129	76	0.020	pCi/g
CP37-051	748810.335	2085855.011	0.5	0.6	Plutonium-239/240		6.435	50	0.020	pCi/g
CP37-051	748810.335	2085855.011	0.5	0.6	Uranium-235		0.123	8	0.120	pCi/g
CP37-051	748810.335	2085855.011	0.5	0.6	Uranium-238		1.806	351	1.490	pCi/g
CP37-052	748809.194	2085812.785	0.5	0.6	Americium-241		1.343	76	0.020	pCi/g
CP37-052	748809.194	2085812.785	0.5	0.6	Plutonium-239/240		7.655	50	0.020	pCi/g
CP37-052	748809.194	2085812.785	0.5	0.6	Uranium-238		1.540	351	1.490	pCi/g
CP37-053	748809.765	2085771.13	0.5	0.6	Americium-241		3.226	76	0.020	pCi/g
CP37-053	748809.765	2085771.13	0.5	0.6	Plutonium-239/240		18.388	50	0.020	pCi/g
CP37-068	748780.862	2085848.375	0.5	0.7	Uranium-234		5.021	300	2.640	pCi/g
CP37-068	748780.862	2085848.375	0.5	0.7	Uranium-235		0.218	8	0.120	pCi/g
CP37-068	748780.862	2085848.375	0.5	0.7	Uranium-238		5.021	351	1.490	pCi/g
CP37-068	748780.862	2085848.375	0.7	0.9	Americium-241		5.089	76	0.020	pCi/g
CP37-068	748780.862	2085848.375	0.7	0.9	Uranium-234		4.781	300	2.640	pCi/g
CP37-068	748780.862	2085848.375	0.7	0.9	Uranium-235		0.247	8	0.120	pCi/g
CP37-068	748780.862	2085848.375	0.7	0.9	Uranium-238		4.781	351	1.490	pCi/g
CP37-069	748780.793	2085789.041	1	1.2	Americium-241		2.035	76	0.020	pCi/g
CP37-069	748780.793	2085789.041	1	1.2	Plutonium-239/240		11.600	50	0.020	pCi/g
CP37-069	748780.793	2085789.041	1	1.2	Uranium-234		4.258	300	2.640	pCi/g
CP37-069	748780.793	2085789.041	1	1.2	Uranium-238		4.258	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CP37-071	748780.862	2085848.375	0.7	0.9	Americium-241		0.276	76	0.020	pCi/g
CP37-071	748780.862	2085848.375	0.7	0.9	Plutonium-239/240		1.571	50	0.020	pCi/g
CP37-071	748780.862	2085848.375	0.7	0.9	Uranium-235		0.141	8	0.120	pCi/g
CP37-071	748780.862	2085848.375	0.7	0.9	Uranium-238		1.881	351	1.490	pCi/g
CP39-040	749270.436	2085771.043	0.8	1.3	Americium-241		2.386	76	0.020	pCi/g
CP39-040	749270.436	2085771.043	0.8	1.3	Plutonium-239/240		13.600	50	0.020	pCi/g
CP39-040	749270.436	2085771.043	0.8	1.3	Uranium-235		0.178	8	0.120	pCi/g
CP39-041	749270.436	2085813.129	0.5	1	Americium-241		0.886	76	0.020	pCi/g
CP39-041	749270.436	2085813.129	0.5	1	Plutonium-239/240		5.050	50	0.020	pCi/g
CP39-041	749270.436	2085813.129	0.5	1	Uranium-234		2.717	300	2.640	pCi/g
CP39-041	749270.436	2085813.129	0.5	1	Uranium-235		0.194	8	0.120	pCi/g
CP39-041	749270.436	2085813.129	0.5	1	Uranium-238		2.717	351	1.490	pCi/g
CP39-042	749271.462	2085855.216	0.5	1	Americium-241		0.623	76	0.020	pCi/g
CP39-042	749271.462	2085855.216	0.5	1	Plutonium-239/240		3.552	50	0.020	pCi/g
CP39-042	749271.462	2085855.216	0.5	1	Uranium-234		4.010	300	2.640	pCi/g
CP39-042	749271.462	2085855.216	0.5	1	Uranium-235		0.201	8	0.120	pCi/g
CP39-042	749271.462	2085855.216	0.5	1	Uranium-238		4.010	351	1.490	pCi/g
CP39-043	749271.462	2085896.276	0.3	0.8	Americium-241		8.815	76	0.020	pCi/g
CP39-043	749271.462	2085896.276	0.3	0.8	Plutonium-239/240		50.246	50	0.020	pCi/g
CP39-043	749271.462	2085896.276	0.3	0.8	Uranium-235		0.196	8	0.120	pCi/g
CP39-043	749271.462	2085896.276	0.3	0.8	Uranium-238		2.427	351	1.490	pCi/g
CP39-048	749308.583	2085791.574	0	0.3	Americium-241		0.963	76	0.023	pCi/g
CP39-048	749308.583	2085791.574	0	0.3	Plutonium-239/240		5.490	50	0.066	pCi/g
CP39-049	749309.289	2085874.924	0	0.3	Americium-241		0.941	76	0.023	pCi/g
CP39-049	749309.289	2085874.924	0	0.3	Plutonium-239/240		5.363	50	0.066	pCi/g
CP39-049	749309.289	2085874.924	0	0.3	Uranium-235		0.104	8	0.094	pCi/g
CP39-050	749271.462	2085896.276			Americium-241		1.11	76	0.020	pCi/g
CP39-050	749271.462	2085896.276			Plutonium-239/240		6.327	50	0.020	pCi/g
CP39-050	749271.462	2085896.276			Uranium-234		3.09	300	2.640	pCi/g
CP39-050	749271.462	2085896.276			Uranium-235		0.135	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CP39-050	749271.462	2085896.276			Uranium-238		3.09	351	1.490	pCi/g
CP40-004-01	749364.874	2085759.751	0.0	0.5	Plutonium-239/240	U	1.628	50	0.066	pCi/g
CP40-004-01	749364.874	2085759.751	0	0.5	Uranium-234		3.840	300	2.253	pCi/g
CP40-004-01	749364.874	2085759.751	0	0.5	Uranium-235		0.181	8	0.094	pCi/g
CP40-004-01	749364.874	2085759.751	0	0.5	Uranium-238		3.840	351	2.000	pCi/g
CP40-006	749364.874	2085843.925	0	0.5	Americium-241		5.753	76	0.023	pCi/g
CP40-006	749364.874	2085843.925	0	0.5	Plutonium-239/240		32.792	50	0.066	pCi/g
CP40-006	749364.874	2085843.925	0	0.5	Uranium-234		5.063	300	2.253	pCi/g
CP40-006	749364.874	2085843.925	0	0.5	Uranium-235		0.239	8	0.094	pCi/g
CP40-006	749364.874	2085843.925	0	0.5	Uranium-238		5.063	351	2.000	pCi/g
CP40-007	749364.874	2085886.011	0	0.5	Americium-241		0.801	76	0.023	pCi/g
CP40-007	749364.874	2085886.011	0	0.5	Plutonium-239/240		4.566	50	0.066	pCi/g
CP40-007	749364.874	2085886.011	0	0.5	Uranium-234		4.261	300	2.253	pCi/g
CP40-007	749364.874	2085886.011	0	0.5	Uranium-235		0.239	8	0.094	pCi/g
CP40-007	749364.874	2085886.011	0	0.5	Uranium-238		4.261	351	2.000	pCi/g
CP40-008	749364.874	2085928.098	0	0.5	Plutonium-239/240		1.080	50	0.066	pCi/g
CP40-008	749364.874	2085928.098	0	0.5	Uranium-234		3.991	300	2.253	pCi/g
CP40-008	749364.874	2085928.098	0	0.5	Uranium-235		0.226	8	0.094	pCi/g
CP40-008	749364.874	2085928.098	0	0.5	Uranium-238		3.991	351	2.000	pCi/g
CP40-009	749406.729	2085802.265	0	0.5	Americium-241		1.493	76	0.023	pCi/g
CP40-009	749406.729	2085802.265	0	0.5	Plutonium-239/240		8.510	50	0.066	pCi/g
CP40-009	749406.729	2085802.265	0	0.5	Uranium-235		0.198	8	0.094	pCi/g
CP40-010	749405.405	2085844.651	0	0.5	Americium-241		3.465	76	0.023	pCi/g
CP40-010	749405.405	2085844.651	0	0.5	Plutonium-239/240		19.751	50	0.066	pCi/g
CP40-010	749405.405	2085844.651	0	0.5	Uranium-235		0.155	8	0.094	pCi/g
CP40-014	749370.53	2085807.606	0.5	0.7	Americium-241		0.214	76	0.020	pCi/g
CP40-014	749370.53	2085807.606	0.5	0.7	Plutonium-239/240		1.090	50	0.020	pCi/g
CP40-014	749370.53	2085807.606	0.5	0.7	Uranium-235		0.145	8	0.120	pCi/g
CP40-015	749369.68	2085790.737	0.5	0.7	Americium-241		0.579	76	0.020	pCi/g
CP40-015	749369.68	2085790.737	0.5	0.7	Plutonium-239/240		3.301	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CP40-015	749369.68	2085790.737	0.5	0.7	Uranium-235		0.158	8	0.120	pCi/g
CP40-015	749369.68	2085790.737	0.5	0.7	Uranium-238		2.074	351	1.490	pCi/g
CQ35-026	748543.732	2086086.477	0.2	0.4	Plutonium-239/240	U	1.052	50	0.066	pCi/g
CQ35-027	748513.953	2086056.76	0.5	0.7	Americium-241		1.275	76	0.020	pCi/g
CQ35-027	748513.953	2086056.76	0.5	0.7	Plutonium-239/240		7.268	50	0.020	pCi/g
CQ35-027	748513.953	2086056.76	0.5	0.7	Uranium-238		2.004	351	1.490	pCi/g
CQ35-028	748484.258	2086027.129	0.8	1	Americium-241		0.148	76	0.020	pCi/g
CQ35-028	748484.258	2086027.129	0.8	1	Plutonium-239/240		0.371	50	0.020	pCi/g
CQ35-028	748484.258	2086027.129	0.8	1	Uranium-238		1.924	351	1.490	pCi/g
CQ35-029	748543.737	2086027.056	0.4	0.6	Americium-241		1.063	76	0.020	pCi/g
CQ35-029	748543.737	2086027.056	0.4	0.6	Plutonium-239/240		6.059	50	0.020	pCi/g
CQ35-030	748513.926	2085997.375	0.8	1	Americium-241		2.512	76	0.020	pCi/g
CQ35-030	748513.926	2085997.375	0.8	1	Plutonium-239/240		14.318	50	0.020	pCi/g
CQ35-031	748484.157	2085967.712	0.5	0.7	Plutonium-239/240	U	0.730	50	0.020	pCi/g
CQ35-031	748484.157	2085967.712	0.5	0.7	Uranium-235		0.177	8	0.120	pCi/g
CQ35-032	748543.552	2085967.601	0.8	1	Americium-241		0.455	76	0.020	pCi/g
CQ35-032	748543.552	2085967.601	0.8	1	Plutonium-239/240		2.594	50	0.020	pCi/g
CQ35-033	748513.649	2085937.953	0.7	0.9	Americium-241		3.491	76	0.020	pCi/g
CQ35-033	748513.649	2085937.953	0.7	0.9	Plutonium-239/240		19.899	50	0.020	pCi/g
CQ35-034	748451.473	2086112.333	0.9	1.1	Americium-241		0.386	76	0.020	pCi/g
CQ35-034	748451.473	2086112.333	0.9	1.1	Plutonium-239/240		2.198	50	0.020	pCi/g
CQ35-035	748497.799	2086093.559	0.1	0.3	Americium-241		4.845	76	0.023	pCi/g
CQ35-035	748497.799	2086093.559	0.1	0.3	Plutonium-239/240		27.617	50	0.066	pCi/g
CQ35-040	748380.272	2086070.721	0.6	0.8	Americium-241		1.059	76	0.020	pCi/g
CQ35-040	748380.272	2086070.721	0.6	0.8	Plutonium-239/240		6.036	50	0.020	pCi/g
CQ35-040	748380.272	2086070.721	0.6	0.8	Uranium-235		0.143	8	0.120	pCi/g
CQ36-027	748573.559	2086116.029	1.0	1.2	Plutonium-239/240	U	2.483	50	0.020	pCi/g
CQ36-027	748573.559	2086116.029	1	1.2	Uranium-238		1.904	351	1.490	pCi/g
CQ36-028	748632.894	2086115.901	0.4	0.6	Americium-241		3.280	76	0.020	pCi/g
CQ36-028	748632.894	2086115.901	0.4	0.6	Plutonium-239/240		16.900	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ36-028	748632.894	2086115.901	0.4	0.6	Uranium-235		0.145	8	0.120	pCi/g
CQ36-028	748632.894	2086115.901	0.4	0.6	Uranium-238		1.874	351	1.490	pCi/g
CQ36-029	748602.975	2086086.373	0.9	1.1	Americium-241		4.502	76	0.020	pCi/g
CQ36-029	748602.975	2086086.373	0.9	1.1	Plutonium-239/240		25.661	50	0.020	pCi/g
CQ36-030	748573.36	2086056.702	0.5	0.7	Americium-241		0.237	76	0.020	pCi/g
CQ36-030	748573.36	2086056.702	0.5	0.7	Plutonium-239/240		1.350	50	0.020	pCi/g
CQ36-031	748692.278	2086115.877	1	1.2	Americium-241		0.909	76	0.020	pCi/g
CQ36-031	748692.278	2086115.877	1	1.2	Plutonium-239/240		5.181	50	0.020	pCi/g
CQ36-031	748692.278	2086115.877	1	1.2	Uranium-238		1.761	351	1.490	pCi/g
CQ36-032	748662.438	2086086.29	0.8	1	Americium-241		5.054	76	0.020	pCi/g
CQ36-032	748662.438	2086086.29	0.8	1	Plutonium-239/240		28.808	50	0.020	pCi/g
CQ36-032	748662.438	2086086.29	0.8	1	Uranium-235		0.181	8	0.120	pCi/g
CQ36-032	748662.438	2086086.29	0.8	1	Uranium-238		2.031	351	1.490	pCi/g
CQ36-033	748632.727	2086056.55	0.5	0.7	Americium-241		0.562	76	0.020	pCi/g
CQ36-033	748632.727	2086056.55	0.5	0.7	Plutonium-239/240		3.203	50	0.020	pCi/g
CQ36-034	748602.988	2086026.959	0.5	0.7	Americium-241		4.190	76	0.020	pCi/g
CQ36-034	748602.988	2086026.959	0.5	0.7	Plutonium-239/240		22.300	50	0.020	pCi/g
CQ36-034	748602.988	2086026.959	0.5	0.7	Uranium-235		0.292	8	0.120	pCi/g
CQ36-034	748602.988	2086026.959	0.5	0.7	Uranium-238		1.589	351	1.490	pCi/g
CQ36-035	748573.216	2085997.237	1.5	1.7	Plutonium-239/240	U	2.008	50	0.020	pCi/g
CQ36-036	748751.651	2086115.789	0.5	0.7	Plutonium-239/240	U	2.217	50	0.020	pCi/g
CQ36-036	748751.651	2086115.789	0.5	0.7	Uranium-235		0.149	8	0.120	pCi/g
CQ36-036	748751.651	2086115.789	0.5	0.7	Uranium-238		2.362	351	1.490	pCi/g
CQ36-037	748721.971	2086086.096	0.5	0.7	Americium-241		5.576	76	0.020	pCi/g
CQ36-037	748721.971	2086086.096	0.5	0.7	Plutonium-239/240		31.783	50	0.020	pCi/g
CQ36-037	748721.971	2086086.096	0.5	0.7	Uranium-235		0.161	8	0.120	pCi/g
CQ36-038	748692.091	2086056.421	0.4	0.6	Americium-241		7.692	76	0.020	pCi/g
CQ36-038	748692.091	2086056.421	0.4	0.6	Plutonium-239/240		43.844	50	0.020	pCi/g
CQ36-038	748692.091	2086056.421	0.4	0.6	Uranium-235		0.303	8	0.120	pCi/g
CQ36-038	748692.091	2086056.421	0.4	0.6	Uranium-238		2.163	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ36-039	748662.374	2086026.831	1.0	1.2	Plutonium-239/240	U	2.413	50	0.020	pCi/g
CQ36-039	748662.374	2086026.831	1	1.2	Uranium-238		1.964	351	1.490	pCi/g
CQ36-040	748632.59	2085997.215	1.9	2.1	Americium-241		1.474	76	0.020	pCi/g
CQ36-040	748632.59	2085997.215	1.9	2.1	Plutonium-239/240		8.402	50	0.020	pCi/g
CQ36-040	748632.59	2085997.215	1.9	2.1	Uranium-235		0.124	8	0.120	pCi/g
CQ36-041	748602.925	2085967.435	1.3	1.5	Plutonium-239/240	U	1.214	50	0.020	pCi/g
CQ36-041	748602.925	2085967.435	1.3	1.5	Uranium-235		0.139	8	0.120	pCi/g
CQ36-042	748573.22	2085937.862	2.5	2.7	Plutonium-239/240	U	2.372	50	0.020	pCi/g
CQ36-042	748573.22	2085937.862	2.5	2.7	Uranium-235		0.218	8	0.120	pCi/g
CQ36-042	748573.22	2085937.862	2.5	2.7	Uranium-238		1.751	351	1.490	pCi/g
CQ36-043	748751.547	2086056.377	0.5	0.7	Americium-241		1.980	76	0.020	pCi/g
CQ36-043	748751.547	2086056.377	0.5	0.7	Plutonium-239/240		15.100	50	0.020	pCi/g
CQ36-043	748751.547	2086056.377	0.5	0.7	Uranium-235		0.134	8	0.120	pCi/g
CQ36-044	748721.861	2086026.688	5.0	5.2	Plutonium-239/240	U	1.793	50	0.020	pCi/g
CQ36-044	748721.861	2086026.688	5	5.2	Uranium-234		3.133	300	2.640	pCi/g
CQ36-044	748721.861	2086026.688	5	5.2	Uranium-235		0.269	8	0.120	pCi/g
CQ36-044	748721.861	2086026.688	5	5.2	Uranium-238		3.133	351	1.490	pCi/g
CQ36-045	748692.037	2085997.054	0.7	0.9	Americium-241		4.415	76	0.020	pCi/g
CQ36-045	748692.037	2085997.054	0.7	0.9	Plutonium-239/240		25.166	50	0.020	pCi/g
CQ36-045	748692.037	2085997.054	0.7	0.9	Uranium-238		2.097	351	1.490	pCi/g
CQ36-046	748662.297	2085967.361	1.8	2.0	Plutonium-239/240	U	2.560	50	0.020	pCi/g
CQ36-046	748662.297	2085967.361	1.8	2	Uranium-235		0.300	8	0.120	pCi/g
CQ36-047	748632.546	2085937.817	2.3	2.5	Plutonium-239/240	U	2.246	50	0.020	pCi/g
CQ36-047	748632.546	2085937.817	2.3	2.5	Uranium-235		0.221	8	0.120	pCi/g
CQ36-048	748751.504	2085996.862	0.5	0.7	Americium-241		7.164	76	0.020	pCi/g
CQ36-048	748751.504	2085996.862	0.5	0.7	Plutonium-239/240		40.835	50	0.020	pCi/g
CQ36-048	748751.504	2085996.862	0.5	0.7	Uranium-235		0.194	8	0.120	pCi/g
CQ36-048	748751.504	2085996.862	0.5	0.7	Uranium-238		1.736	351	1.490	pCi/g
CQ36-049	748721.779	2085967.346	0.5	0.7	Plutonium-239/240	U	1.988	50	0.020	pCi/g
CQ36-050	748692.039	2085937.63	1.7	1.9	Americium-241		0.224	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ36-050	748692.039	2085937.63	1.7	1.9	Plutonium-239/240		1.275	50	0.020	pCi/g
CQ36-050	748692.039	2085937.63	1.7	1.9	Uranium-235		0.147	8	0.120	pCi/g
CQ36-050	748692.039	2085937.63	1.7	1.9	Uranium-238		1.604	351	1.490	pCi/g
CQ36-051	748751.341	2085937.559	0.6	0.8	Americium-241		0.413	76	0.020	pCi/g
CQ36-051	748751.341	2085937.559	0.6	0.8	Plutonium-239/240		2.354	50	0.020	pCi/g
CQ36-051	748751.341	2085937.559	0.6	0.8	Uranium-235		0.165	8	0.120	pCi/g
CQ36-051	748751.341	2085937.559	0.6	0.8	Uranium-238		1.973	351	1.490	pCi/g
CQ37-030	748958.874	2085980.142	0.5	0.6	Americium-241		7.187	76	0.020	pCi/g
CQ37-030	748958.874	2085980.142	0.5	0.6	Plutonium-239/240		40.966	50	0.020	pCi/g
CQ37-030	748958.874	2085980.142	0.5	0.6	Uranium-238		1.659	351	1.490	pCi/g
CQ37-031	748874.843	2086105.411	0.8	0.9	Americium-241		2.690	76	0.020	pCi/g
CQ37-031	748874.843	2086105.411	0.8	0.9	Plutonium-239/240		15.600	50	0.020	pCi/g
CQ37-031	748874.843	2086105.411	0.8	0.9	Uranium-234		3.679	300	2.640	pCi/g
CQ37-031	748874.843	2086105.411	0.8	0.9	Uranium-235		0.228	8	0.120	pCi/g
CQ37-031	748874.843	2086105.411	0.8	0.9	Uranium-238		3.679	351	1.490	pCi/g
CQ37-032	748876.399	2086064.174	0.8	0.9	Americium-241		2.881	76	0.020	pCi/g
CQ37-032	748876.399	2086064.174	0.8	0.9	Plutonium-239/240		16.422	50	0.020	pCi/g
CQ37-033	748832.863	2086022.952	0.7	0.9	Americium-241		0.639	76	0.020	pCi/g
CQ37-033	748832.863	2086022.952	0.7	0.9	Plutonium-239/240		3.642	50	0.020	pCi/g
CQ37-033	748832.863	2086022.952	0.7	0.9	Uranium-234		6.421	300	2.640	pCi/g
CQ37-033	748832.863	2086022.952	0.7	0.9	Uranium-235		0.258	8	0.120	pCi/g
CQ37-033	748832.863	2086022.952	0.7	0.9	Uranium-238		6.421	351	1.490	pCi/g
CQ37-034	748831.954	2086064.123	1.3	1.5	Plutonium-239/240		3.893	50	0.020	pCi/g
CQ37-034	748831.954	2086064.123	1.3	1.5	Uranium-234		4.858	300	2.640	pCi/g
CQ37-034	748831.954	2086064.123	1.3	1.5	Uranium-235		0.284	8	0.120	pCi/g
CQ37-034	748831.954	2086064.123	1.3	1.5	Uranium-238		4.858	351	1.490	pCi/g
CQ37-035	748833.536	2086106.138	0.7	0.9	Americium-241		0.667	76	0.020	pCi/g
CQ37-035	748833.536	2086106.138	0.7	0.9	Plutonium-239/240		3.801	50	0.020	pCi/g
CQ37-035	748833.536	2086106.138	0.7	0.9	Uranium-235		0.179	8	0.120	pCi/g
CQ37-036	748958.695	2086106.652	0.5	0.6	Americium-241		1.821	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ37-036	748958.695	2086106.652	0.5	0.6	Plutonium-239/240		10.380	50	0.020	pCi/g
CQ37-036	748958.695	2086106.652	0.5	0.6	Uranium-235		0.152	8	0.120	pCi/g
CQ37-036	748958.695	2086106.652	0.5	0.6	Uranium-238		1.953	351	1.490	pCi/g
CQ37-037	748959.265	2086064.426	1.3	1.4	Americium-241		0.688	76	0.020	pCi/g
CQ37-037	748959.265	2086064.426	1.3	1.4	Plutonium-239/240		5.770	50	0.020	pCi/g
CQ37-037	748959.265	2086064.426	1.3	1.4	Uranium-235		0.171	8	0.120	pCi/g
CQ37-037	748959.265	2086064.426	1.3	1.4	Uranium-238		1.534	351	1.490	pCi/g
CQ37-038	748958.695	2086022.771	1	1.1	Americium-241		6.774	76	0.020	pCi/g
CQ37-038	748958.695	2086022.771	1	1.1	Plutonium-239/240		38.612	50	0.020	pCi/g
CQ37-038	748958.695	2086022.771	1	1.1	Uranium-234		3.876	300	2.640	pCi/g
CQ37-038	748958.695	2086022.771	1	1.1	Uranium-235		0.212	8	0.120	pCi/g
CQ37-038	748958.695	2086022.771	1	1.1	Uranium-238		3.876	351	1.490	pCi/g
CQ37-039	748917.611	2085980.546	1	1.1	Americium-241		2.510	76	0.020	pCi/g
CQ37-039	748917.611	2085980.546	1	1.1	Plutonium-239/240		14.307	50	0.020	pCi/g
CQ37-040	748917.611	2086022.771	1	1.1	Americium-241		0.308	76	0.020	pCi/g
CQ37-040	748917.611	2086022.771	1	1.1	Plutonium-239/240		1.756	50	0.020	pCi/g
CQ37-040	748917.611	2086022.771	1	1.1	Uranium-235		0.159	8	0.120	pCi/g
CQ37-041	748917.611	2086064.997	0.8	0.9	Americium-241		2.402	76	0.020	pCi/g
CQ37-041	748917.611	2086064.997	0.8	0.9	Plutonium-239/240		13.691	50	0.020	pCi/g
CQ37-041	748917.611	2086064.997	0.8	0.9	Uranium-238		1.965	351	1.490	pCi/g
CQ37-042	748917.611	2086107.222	0.8	0.9	Americium-241		2.971	76	0.020	pCi/g
CQ37-042	748917.611	2086107.222	0.8	0.9	Plutonium-239/240		16.935	50	0.020	pCi/g
CQ37-042	748917.611	2086107.222	0.8	0.9	Uranium-234		3.078	300	2.640	pCi/g
CQ37-042	748917.611	2086107.222	0.8	0.9	Uranium-235		0.195	8	0.120	pCi/g
CQ37-042	748917.611	2086107.222	0.8	0.9	Uranium-238		3.078	351	1.490	pCi/g
CQ37-043	748875.385	2086023.342	0.8	0.9	Americium-241		0.522	76	0.020	pCi/g
CQ37-043	748875.385	2086023.342	0.8	0.9	Plutonium-239/240		2.978	50	0.020	pCi/g
CQ37-044	748875.956	2085981.116	0.6	0.7	Americium-241		0.910	76	0.020	pCi/g
CQ37-044	748875.956	2085981.116	0.6	0.7	Plutonium-239/240		5.188	50	0.020	pCi/g
CQ37-044	748875.956	2085981.116	0.6	0.7	Uranium-235		0.210	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ37-045	748833.16	2085979.975	0.8	0.9	Americium-241		4.560	76	0.020	pCi/g
CQ37-045	748833.16	2085979.975	0.8	0.9	Plutonium-239/240		21.300	50	0.020	pCi/g
CQ37-045	748833.16	2085979.975	0.8	0.9	Uranium-238		1.533	351	1.490	pCi/g
CQ37-046	748851.99	2085938.891	1.5	1.6	Americium-241		2.115	76	0.020	pCi/g
CQ37-046	748851.99	2085938.891	1.5	1.6	Plutonium-239/240		12.056	50	0.020	pCi/g
CQ37-047	748809.194	2085938.891	1	1.1	Americium-241		4.065	76	0.020	pCi/g
CQ37-047	748809.194	2085938.891	1	1.1	Plutonium-239/240		23.171	50	0.020	pCi/g
CQ37-047	748809.194	2085938.891	1	1.1	Uranium-235		0.204	8	0.120	pCi/g
CQ37-047	748809.194	2085938.891	1	1.1	Uranium-238		1.824	351	1.490	pCi/g
CQ37-070	748811.034	2086115.71	0.5	0.7	Americium-241		2.992	76	0.020	pCi/g
CQ37-070	748811.034	2086115.71	0.5	0.7	Plutonium-239/240		17.054	50	0.020	pCi/g
CQ37-070	748811.034	2086115.71	0.5	0.7	Uranium-238		1.755	351	1.490	pCi/g
CQ37-071	748781.319	2086086.005	1	1.2	Americium-241		1.059	76	0.020	pCi/g
CQ37-071	748781.319	2086086.005	1	1.2	Plutonium-239/240		6.036	50	0.020	pCi/g
CQ37-072	748810.838	2086060.324	1.0	1.2	Plutonium-239/240	U	2.416	50	0.020	pCi/g
CQ37-072	748810.838	2086060.324	1	1.2	Uranium-235		0.210	8	0.120	pCi/g
CQ37-073	748781.261	2086026.651	1.5	1.7	Plutonium-239/240	U	1.943	50	0.020	pCi/g
CQ37-074	748810.763	2085996.927	0.8	1	Americium-241		0.398	76	0.020	pCi/g
CQ37-074	748810.763	2085996.927	0.8	1	Plutonium-239/240		2.270	50	0.020	pCi/g
CQ37-075	748781.171	2085967.217	0.9	1.1	Plutonium-239/240	U	1.026	50	0.020	pCi/g
CQ37-075	748781.171	2085967.217	0.9	1.1	Uranium-238		1.576	351	1.490	pCi/g
CQ38-014	749128.167	2086064.426	0.4	0.9	Americium-241		5.576	76	0.020	pCi/g
CQ38-014	749128.167	2086064.426	0.4	0.9	Uranium-235		0.122	8	0.120	pCi/g
CQ38-014	749128.167	2086064.426	0.4	0.9	Uranium-238		1.548	351	1.490	pCi/g
CQ38-019	749084.23	2086064.997	0.5	1	Americium-241		8.410	76	0.020	pCi/g
CQ38-019	749084.23	2086064.997	0.5	1	Uranium-235		0.161	8	0.120	pCi/g
CQ38-019	749084.23	2086064.997	0.5	1	Uranium-238		1.893	351	1.490	pCi/g
CQ38-030	749126.775	2086106.446	2	2.2	Americium-241		0.699	76	0.020	pCi/g
CQ38-030	749126.775	2086106.446	2	2.2	Plutonium-239/240		5.185	50	0.020	pCi/g
CQ38-031	749128.167	2086064.426	1.5	1.8	Americium-241		3.494	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ38-031	749128.167	2086064.426	1.5	1.8	Plutonium-239/240		19.916	50	0.020	pCi/g
CQ38-031	749128.167	2086064.426	1.5	1.8	Uranium-238		1.775	351	1.490	pCi/g
CQ38-032	749127.026	2086022.201	0.8	1.1	Americium-241		3.184	76	0.020	pCi/g
CQ38-032	749127.026	2086022.201	0.8	1.1	Plutonium-239/240		18.149	50	0.020	pCi/g
CQ38-032	749127.026	2086022.201	0.8	1.1	Uranium-235		0.151	8	0.120	pCi/g
CQ38-032	749127.026	2086022.201	0.8	1.1	Uranium-238		2.260	351	1.490	pCi/g
CQ38-033	749127.026	2085979.975	0.5	0.8	Americium-241		0.486	76	0.020	pCi/g
CQ38-033	749127.026	2085979.975	0.5	0.8	Plutonium-239/240		2.770	50	0.020	pCi/g
CQ38-033	749127.026	2085979.975	0.5	0.8	Uranium-235		0.186	8	0.120	pCi/g
CQ38-033	749127.026	2085979.975	0.5	0.8	Uranium-238		2.199	351	1.490	pCi/g
CQ38-034	749085.371	2085981.116	1.3	1.4	Americium-241		1.442	76	0.020	pCi/g
CQ38-034	749085.371	2085981.116	1.3	1.4	Plutonium-239/240		8.219	50	0.020	pCi/g
CQ38-034	749085.371	2085981.116	1.3	1.4	Uranium-235		0.163	8	0.120	pCi/g
CQ38-034	749085.371	2085981.116	1.3	1.4	Uranium-238		2.151	351	1.490	pCi/g
CQ38-035	749084.8	2086022.201	1.3	1.4	Americium-241		3.626	76	0.020	pCi/g
CQ38-035	749084.8	2086022.201	1.3	1.4	Plutonium-239/240		20.668	50	0.020	pCi/g
CQ38-035	749084.8	2086022.201	1.3	1.4	Uranium-235		0.199	8	0.120	pCi/g
CQ38-035	749084.8	2086022.201	1.3	1.4	Uranium-238		1.885	351	1.490	pCi/g
CQ38-036	749084.23	2086064.997	1	1.2	Americium-241		1.897	76	0.020	pCi/g
CQ38-036	749084.23	2086064.997	1	1.2	Plutonium-239/240		10.813	50	0.020	pCi/g
CQ38-036	749084.23	2086064.997	1	1.2	Uranium-238		1.716	351	1.490	pCi/g
CQ38-037	749084.23	2086106.081	0.8	0.9	Americium-241		4.788	76	0.020	pCi/g
CQ38-037	749084.23	2086106.081	0.8	0.9	Plutonium-239/240		27.292	50	0.020	pCi/g
CQ38-038	749043.146	2086107.222	1	1.1	Americium-241		2.670	76	0.020	pCi/g
CQ38-038	749043.146	2086107.222	1	1.1	Plutonium-239/240		15.500	50	0.020	pCi/g
CQ38-039	749042.575	2086064.426	2.1	2.2	Americium-241		2.482	76	0.020	pCi/g
CQ38-039	749042.575	2086064.426	2.1	2.2	Plutonium-239/240		14.147	50	0.020	pCi/g
CQ38-039	749042.575	2086064.426	2.1	2.2	Uranium-235		0.132	8	0.120	pCi/g
CQ38-039	749042.575	2086064.426	2.1	2.2	Uranium-238		1.792	351	1.490	pCi/g
CQ38-040	749043.146	2086022.771	1.1	1.3	Americium-241		5.407	76	0.020	pCi/g

Draft Closeout Report for IHSS Group 900-11, IHSS 140 and IHSS 155

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ38-040	749043.146	2086022.771	1.1	1.3	Plutonium-239/240		30.820	50	0.020	pCi/g
CQ38-040	749043.146	2086022.771	1.1	1.3	Uranium-235		0.157	8	0.120	pCi/g
CQ38-040	749043.146	2086022.771	1.1	1.3	Uranium-238		1.917	351	1.490	pCi/g
CQ38-041	749042.575	2085980.546	1.5	1.6	Americium-241		7.644	76	0.020	pCi/g
CQ38-041	749042.575	2085980.546	1.5	1.6	Plutonium-239/240		43.571	50	0.020	pCi/g
CQ38-041	749042.575	2085980.546	1.5	1.6	Uranium-238		1.825	351	1.490	pCi/g
CQ38-042	749000.92	2085980.546	1	1.1	Americium-241		6.466	76	0.020	pCi/g
CQ38-042	749000.92	2085980.546	1	1.1	Plutonium-239/240		36.856	50	0.020	pCi/g
CQ38-043	749001.491	2086022.201	1.5	1.6	Americium-241		1.807	76	0.020	pCi/g
CQ38-043	749001.491	2086022.201	1.5	1.6	Plutonium-239/240		10.300	50	0.020	pCi/g
CQ38-044	749000.92	2086064.426	1.5	1.6	Americium-241		7.297	76	0.020	pCi/g
CQ38-044	749000.92	2086064.426	1.5	1.6	Plutonium-239/240		41.593	50	0.020	pCi/g
CQ38-044	749000.92	2086064.426	1.5	1.6	Uranium-235		0.132	8	0.120	pCi/g
CQ38-044	749000.92	2086064.426	1.5	1.6	Uranium-238		1.924	351	1.490	pCi/g
CQ38-045	749000.92	2086106.652	0.8	0.9	Americium-241		8.677	76	0.020	pCi/g
CQ38-045	749000.92	2086106.652	0.8	0.9	Plutonium-239/240		49.459	50	0.020	pCi/g
CQ38-045	749000.92	2086106.652	0.8	0.9	Uranium-235		0.157	8	0.120	pCi/g
CQ38-045	749000.92	2086106.652	0.8	0.9	Uranium-238		1.647	351	1.490	pCi/g
CQ38-065	749000.937	2086190.498	0.5	0.7	Americium-241		0.621	76	0.020	pCi/g
CQ38-065	749000.937	2086190.498	0.5	0.7	Plutonium-239/240		3.541	50	0.020	pCi/g
CQ38-065	749000.937	2086190.498	0.5	0.7	Uranium-235		0.220	8	0.120	pCi/g
CQ39-017	749270.436	2085937.337	0.6	1.1	Americium-241		3.392	76	0.020	pCi/g
CQ39-017	749270.436	2085937.337	0.6	1.1	Plutonium-239/240		19.334	50	0.020	pCi/g
CQ39-017	749270.436	2085937.337	0.6	1.1	Uranium-234		4.079	300	2.640	pCi/g
CQ39-017	749270.436	2085937.337	0.6	1.1	Uranium-235		0.346	8	0.120	pCi/g
CQ39-017	749270.436	2085937.337	0.6	1.1	Uranium-238		4.079	351	1.490	pCi/g
CQ39-022	749251.14	2086066.785	1.5	1.7	Americium-241		0.744	76	0.020	pCi/g
CQ39-022	749251.14	2086066.785	1.5	1.7	Plutonium-239/240		4.239	50	0.020	pCi/g
CQ39-022	749251.14	2086066.785	1.5	1.7	Uranium-235		0.146	8	0.120	pCi/g
CQ39-022	749251.14	2086066.785	1.5	1.7	Uranium-238		2.186	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ39-023	749169.73	2085980.142	0.5	0.6	Americium-241		2.609	76	0.020	pCi/g
CQ39-023	749169.73	2085980.142	0.5	0.6	Plutonium-239/240		14.871	50	0.020	pCi/g
CQ39-023	749169.73	2085980.142	0.5	0.6	Uranium-235		0.169	8	0.120	pCi/g
CQ39-023	749169.73	2085980.142	0.5	0.6	Uranium-238		1.802	351	1.490	pCi/g
CQ39-024	749253.702	2085979.975	0.5	0.7	Americium-241		5.076	76	0.020	pCi/g
CQ39-024	749253.702	2085979.975	0.5	0.7	Plutonium-239/240		28.933	50	0.020	pCi/g
CQ39-024	749253.702	2085979.975	0.5	0.7	Uranium-234		3.142	300	2.640	pCi/g
CQ39-024	749253.702	2085979.975	0.5	0.7	Uranium-238		3.142	351	1.490	pCi/g
CQ39-025	749253.132	2086022.201	0.5	0.7	Plutonium-239/240	U	1.775	50	0.020	pCi/g
CQ39-026	749253.132	2086106.652	1.5	1.7	Americium-241		0.512	76	0.020	pCi/g
CQ39-026	749253.132	2086106.652	1.5	1.7	Plutonium-239/240		2.916	50	0.020	pCi/g
CQ39-026	749253.132	2086106.652	1.5	1.7	Uranium-235		0.206	8	0.120	pCi/g
CQ39-026	749253.132	2086106.652	1.5	1.7	Uranium-238		2.041	351	1.490	pCi/g
CQ39-027	749211.477	2086106.652	2.3	2.5	Americium-241		2.232	76	0.020	pCi/g
CQ39-027	749211.477	2086106.652	2.3	2.5	Plutonium-239/240		12.722	50	0.020	pCi/g
CQ39-027	749211.477	2086106.652	2.3	2.5	Uranium-238		1.852	351	1.490	pCi/g
CQ39-028	749211.477	2086064.426	1.7	1.9	Americium-241		4.272	76	0.020	pCi/g
CQ39-028	749211.477	2086064.426	1.7	1.9	Plutonium-239/240		24.350	50	0.020	pCi/g
CQ39-028	749211.477	2086064.426	1.7	1.9	Uranium-235		0.159	8	0.120	pCi/g
CQ39-028	749211.477	2086064.426	1.7	1.9	Uranium-238		1.491	351	1.490	pCi/g
CQ39-029	749211.477	2086022.771	1.5	1.7	Americium-241		3.123	76	0.020	pCi/g
CQ39-029	749211.477	2086022.771	1.5	1.7	Plutonium-239/240		17.801	50	0.020	pCi/g
CQ39-029	749211.477	2086022.771	1.5	1.7	Uranium-235		0.175	8	0.120	pCi/g
CQ39-030	749211.477	2085980.546	0.5	0.7	Americium-241		3.086	76	0.020	pCi/g
CQ39-030	749211.477	2085980.546	0.5	0.7	Plutonium-239/240		17.590	50	0.020	pCi/g
CQ39-030	749211.477	2085980.546	0.5	0.7	Uranium-238		2.596	351	1.490	pCi/g
CQ39-031	749169.251	2086022.771	0.5	0.6	Americium-241		4.278	76	0.020	pCi/g
CQ39-031	749169.251	2086022.771	0.5	0.6	Plutonium-239/240		24.385	50	0.020	pCi/g
CQ39-031	749169.251	2086022.771	0.5	0.6	Uranium-234		3.420	300	2.640	pCi/g
CQ39-031	749169.251	2086022.771	0.5	0.6	Uranium-235		0.263	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ39-031	749169.251	2086022.771	0.5	0.6	Uranium-238		3.420	351	1.490	pCi/g
CQ39-032	748876.399	2086064.174	1.3	1.4	Americium-241		2.718	76	0.020	pCi/g
CQ39-032	748876.399	2086064.174	1.3	1.4	Plutonium-239/240		15.493	50	0.020	pCi/g
CQ39-032	748876.399	2086064.174	1.3	1.4	Uranium-235		0.197	8	0.120	pCi/g
CQ39-032	748876.399	2086064.174	1.3	1.4	Uranium-238		1.723	351	1.490	pCi/g
CQ39-033	749168.681	2086106.081	0.5	0.8	Americium-241		4.615	76	0.020	pCi/g
CQ39-033	749168.681	2086106.081	0.5	0.8	Plutonium-239/240		26.306	50	0.020	pCi/g
CQ39-033	749168.681	2086106.081	0.5	0.8	Uranium-238		1.491	351	1.490	pCi/g
CQ39-050	749310.473	2085937.929	0	0.3	Americium-241		0.690	76	0.023	pCi/g
CQ39-050	749310.473	2085937.929	0	0.3	Plutonium-239/240		2.840	50	0.066	pCi/g
CQ39-050	749310.473	2085937.929	0	0.3	Uranium-235		0.128	8	0.094	pCi/g
CQ39-051	749294.681	2085981.998	0	0.3	Americium-241		1.894	76	0.023	pCi/g
CQ39-051	749294.681	2085981.998	0	0.3	Plutonium-239/240		10.796	50	0.066	pCi/g
CQ39-051	749294.681	2085981.998	0	0.3	Uranium-235		0.120	8	0.094	pCi/g
CQ39-052	749294.674	2086020.554	0	0.3	Americium-241		1.324	76	0.023	pCi/g
CQ39-052	749294.674	2086020.554	0	0.3	Plutonium-239/240		7.547	50	0.066	pCi/g
CQ39-053	749294.651	2086063.677	0	0.3	Americium-241		0.635	76	0.023	pCi/g
CQ39-053	749294.651	2086063.677	0	0.3	Plutonium-239/240		3.617	50	0.066	pCi/g
CQ39-053	749294.651	2086063.677	0	0.3	Uranium-235		0.110	8	0.094	pCi/g
CQ39-054	749295.483	2086104.99	0.0	0.3	Plutonium-239/240	U	1.910	50	0.066	pCi/g
CQ39-054	749295.483	2086104.99	0	0.3	Uranium-234		2.804	300	2.253	pCi/g
CQ39-054	749295.483	2086104.99	0	0.3	Uranium-238		2.804	351	2.000	pCi/g
CQ40-003-01	749364.874	2085970.185	0	0.5	Americium-241		0.532	76	0.023	pCi/g
CQ40-003-01	749364.874	2085970.185	0	0.5	Plutonium-239/240		3.030	50	0.066	pCi/g
CQ40-003-01	749364.874	2085970.185	0	0.5	Uranium-235		0.126	8	0.094	pCi/g
CQ40-004	749363.848	2086011.245	0	0.5	Americium-241		0.395	76	0.023	pCi/g
CQ40-004	749363.848	2086011.245	0	0.5	Plutonium-239/240		2.250	50	0.066	pCi/g
CQ40-004	749363.848	2086011.245	0	0.5	Uranium-235		0.126	8	0.094	pCi/g
CQ40-005	749363.848	2086053.332	0.0	0.5	Plutonium-239/240	U	1.482	50	0.066	pCi/g
CQ40-006	749364.874	2086095.419	0	0.5	Americium-241		3.504	76	0.023	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CQ40-006	749364.874	2086095.419	0	0.5	Plutonium-239/240		19.973	50	0.066	pCi/g
CQ40-006	749364.874	2086095.419	0	0.5	Uranium-235		0.149	8	0.094	pCi/g
CR34-001	748303.823	2086280.377	0.1	0.3	Americium-241		4.031	76	0.023	pCi/g
CR34-001	748303.823	2086280.377	0.1	0.3	Plutonium-239/240		22.977	50	0.066	pCi/g
CR34-001	748303.823	2086280.377	0.1	0.3	Uranium-234		4.105	300	2.253	pCi/g
CR34-001	748303.823	2086280.377	0.1	0.3	Uranium-235		0.255	8	0.094	pCi/g
CR34-001	748303.823	2086280.377	0.1	0.3	Uranium-238		4.105	351	2.000	pCi/g
CR35-004	748368.865	2086307.709	0.3	0.5	Americium-241		2.193	76	0.023	pCi/g
CR35-004	748368.865	2086307.709	0.3	0.5	Plutonium-239/240		12.500	50	0.066	pCi/g
CR35-004	748368.865	2086307.709	0.3	0.5	Uranium-234		5.931	300	2.253	pCi/g
CR35-004	748368.865	2086307.709	0.3	0.5	Uranium-235		0.336	8	0.094	pCi/g
CR35-004	748368.865	2086307.709	0.3	0.5	Uranium-238		5.931	351	2.000	pCi/g
CR35-005	748434.055	2086335.325	0.2	0.4	Americium-241		3.500	76	0.023	pCi/g
CR35-005	748434.055	2086335.325	0.2	0.4	Plutonium-239/240		19.900	50	0.066	pCi/g
CR35-005	748434.055	2086335.325	0.2	0.4	Uranium-234		3.357	300	2.253	pCi/g
CR35-005	748434.055	2086335.325	0.2	0.4	Uranium-235		0.333	8	0.094	pCi/g
CR35-005	748434.055	2086335.325	0.2	0.4	Uranium-238		3.357	351	2.000	pCi/g
CR35-006	748415.215	2086289.022	0.8	1	Americium-241		2.549	76	0.020	pCi/g
CR35-006	748415.215	2086289.022	0.8	1	Plutonium-239/240		14.529	50	0.020	pCi/g
CR35-006	748415.215	2086289.022	0.8	1	Uranium-234		5.753	300	2.640	pCi/g
CR35-006	748415.215	2086289.022	0.8	1	Uranium-235		0.345	8	0.120	pCi/g
CR35-006	748415.215	2086289.022	0.8	1	Uranium-238		5.753	351	1.490	pCi/g
CR35-007	748480.382	2086316.45	0.2	0.4	Americium-241		4.306	76	0.023	pCi/g
CR35-007	748480.382	2086316.45	0.2	0.4	Plutonium-239/240		24.544	50	0.066	pCi/g
CR35-008	748461.648	2086270.214	0.5	0.7	Americium-241		1.918	76	0.020	pCi/g
CR35-008	748461.648	2086270.214	0.5	0.7	Plutonium-239/240		10.933	50	0.020	pCi/g
CR35-008	748461.648	2086270.214	0.5	0.7	Uranium-235		0.223	8	0.120	pCi/g
CR35-008	748461.648	2086270.214	0.5	0.7	Uranium-238		1.755	351	1.490	pCi/g
CR35-009	748442.734	2086223.894	0.7	0.9	Americium-241		0.795	76	0.020	pCi/g
CR35-009	748442.734	2086223.894	0.7	0.9	Plutonium-239/240		4.410	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR35-009	748442.734	2086223.894	0.7	0.9	Uranium-235		0.215	8	0.120	pCi/g
CR35-009	748442.734	2086223.894	0.7	0.9	Uranium-238		2.370	351	1.490	pCi/g
CR35-010	748526.804	2086297.749	1.9	2.1	Plutonium-239/240	U	4.224	50	0.020	pCi/g
CR35-010	748526.804	2086297.749	1.9	2.1	Uranium-234		4.980	300	2.640	pCi/g
CR35-010	748526.804	2086297.749	1.9	2.1	Uranium-235		0.314	8	0.120	pCi/g
CR35-010	748526.804	2086297.749	1.9	2.1	Uranium-238		4.980	351	1.490	pCi/g
CR35-011	748507.862	2086251.331	1	1.2	Americium-241		0.655	76	0.020	pCi/g
CR35-011	748507.862	2086251.331	1	1.2	Plutonium-239/240		3.732	50	0.020	pCi/g
CR35-011	748507.862	2086251.331	1	1.2	Uranium-234		5.297	300	2.640	pCi/g
CR35-011	748507.862	2086251.331	1	1.2	Uranium-235		0.230	8	0.120	pCi/g
CR35-011	748507.862	2086251.331	1	1.2	Uranium-238		5.297	351	1.490	pCi/g
CR35-012	748489.168	2086205.096	0.6	0.8	Americium-241		4.675	76	0.020	pCi/g
CR35-012	748489.168	2086205.096	0.6	0.8	Plutonium-239/240		26.648	50	0.020	pCi/g
CR35-012	748489.168	2086205.096	0.6	0.8	Uranium-238		1.893	351	1.490	pCi/g
CR35-013	748470.283	2086158.682	0.5	0.8	Americium-241		1.883	76	0.020	pCi/g
CR35-013	748470.283	2086158.682	0.5	0.8	Plutonium-239/240		10.733	50	0.020	pCi/g
CR35-013	748470.283	2086158.682	0.5	0.8	Uranium-235		0.170	8	0.120	pCi/g
CR35-013	748470.283	2086158.682	0.5	0.8	Uranium-238		1.495	351	1.490	pCi/g
CR35-014	748554.111	2086232.645	1.2	1.4	Plutonium-239/240	U	4.134	50	0.020	pCi/g
CR35-014	748554.111	2086232.645	1.2	1.4	Uranium-234		5.723	300	2.640	pCi/g
CR35-014	748554.111	2086232.645	1.2	1.4	Uranium-235		0.258	8	0.120	pCi/g
CR35-014	748554.111	2086232.645	1.2	1.4	Uranium-238		5.723	351	1.490	pCi/g
CR35-015	748535.365	2086186.271	0.6	0.8	Americium-241		6.560	76	0.020	pCi/g
CR35-015	748535.365	2086186.271	0.6	0.8	Plutonium-239/240		37.392	50	0.020	pCi/g
CR35-015	748535.365	2086186.271	0.6	0.8	Uranium-234		4.973	300	2.640	pCi/g
CR35-015	748535.365	2086186.271	0.6	0.8	Uranium-235		0.231	8	0.120	pCi/g
CR35-015	748535.365	2086186.271	0.6	0.8	Uranium-238		4.973	351	1.490	pCi/g
CR35-016	748516.686	2086139.985	0.9	1.1	Americium-241		1.210	76	0.020	pCi/g
CR35-016	748516.686	2086139.985	0.9	1.1	Plutonium-239/240		8.610	50	0.020	pCi/g
CR35-016	748516.686	2086139.985	0.9	1.1	Uranium-234		4.932	300	2.640	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR35-016	748516.686	2086139.985	0.9	1.1	Uranium-235		0.317	8	0.120	pCi/g
CR35-016	748516.686	2086139.985	0.9	1.1	Uranium-238		4.932	351	1.490	pCi/g
CR35-017	748543.917	2086145.757	0.5	0.7	Americium-241		6.450	76	0.020	pCi/g
CR35-017	748543.917	2086145.757	0.5	0.7	Plutonium-239/240		36.765	50	0.020	pCi/g
CR36-031	748722.319	2086323.678	0.5	0.7	Americium-241		5.618	76	0.020	pCi/g
CR36-031	748722.319	2086323.678	0.5	0.7	Plutonium-239/240		32.023	50	0.020	pCi/g
CR36-031	748722.319	2086323.678	0.5	0.7	Uranium-234		4.096	300	2.640	pCi/g
CR36-031	748722.319	2086323.678	0.5	0.7	Uranium-235		0.262	8	0.120	pCi/g
CR36-031	748722.319	2086323.678	0.5	0.7	Uranium-238		4.096	351	1.490	pCi/g
CR36-032	748692.609	2086294.076	0.3	0.5	Americium-241		1.504	76	0.023	pCi/g
CR36-032	748692.609	2086294.076	0.3	0.5	Plutonium-239/240		8.573	50	0.066	pCi/g
CR36-032	748692.609	2086294.076	0.3	0.5	Uranium-235		0.188	8	0.094	pCi/g
CR36-033	748662.781	2086264.416	0.3	0.5	Americium-241		0.418	76	0.023	pCi/g
CR36-033	748662.781	2086264.416	0.3	0.5	Plutonium-239/240		2.382	50	0.066	pCi/g
CR36-034	748633.136	2086234.73	0.3	0.5	Americium-241		3.942	76	0.023	pCi/g
CR36-034	748633.136	2086234.73	0.3	0.5	Plutonium-239/240		22.469	50	0.066	pCi/g
CR36-034	748633.136	2086234.73	0.3	0.5	Uranium-235		0.138	8	0.094	pCi/g
CR36-035	748603.339	2086205.136	0.6	0.8	Americium-241		6.978	76	0.020	pCi/g
CR36-035	748603.339	2086205.136	0.6	0.8	Plutonium-239/240		39.775	50	0.020	pCi/g
CR36-035	748603.339	2086205.136	0.6	0.8	Uranium-238		1.882	351	1.490	pCi/g
CR36-036	748573.567	2086175.4	0.5	0.7	Americium-241		1.430	76	0.020	pCi/g
CR36-036	748573.567	2086175.4	0.5	0.7	Plutonium-239/240		8.151	50	0.020	pCi/g
CR36-036	748573.567	2086175.4	0.5	0.7	Uranium-235		0.165	8	0.120	pCi/g
CR36-037	748751.962	2086293.966	0.5	0.7	Americium-241		0.589	76	0.020	pCi/g
CR36-037	748751.962	2086293.966	0.5	0.7	Plutonium-239/240		3.359	50	0.020	pCi/g
CR36-038	748722.28	2086264.259	0.5	0.7	Plutonium-239/240	U	1.385	50	0.020	pCi/g
CR36-039	748692.454	2086234.674	0.8	1.0	Plutonium-239/240	U	1.243	50	0.020	pCi/g
CR36-040	748662.631	2086204.982	0.8	1	Americium-241		0.655	76	0.020	pCi/g
CR36-040	748662.631	2086204.982	0.8	1	Plutonium-239/240		3.732	50	0.020	pCi/g
CR36-041	748633	2086175.315	0.5	0.7	Americium-241		1.469	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR36-041	748633	2086175.315	0.5	0.7	Plutonium-239/240		8.373	50	0.020	pCi/g
CR36-041	748633	2086175.315	0.5	0.7	Uranium-235		0.206	8	0.120	pCi/g
CR36-041	748633	2086175.315	0.5	0.7	Uranium-238		2.120	351	1.490	pCi/g
CR36-042	748603.219	2086145.68	0.9	1.1	Americium-241		0.358	76	0.020	pCi/g
CR36-042	748603.219	2086145.68	0.9	1.1	Plutonium-239/240		1.410	50	0.020	pCi/g
CR36-042	748603.219	2086145.68	0.9	1.1	Uranium-235		0.173	8	0.120	pCi/g
CR36-042	748603.219	2086145.68	0.9	1.1	Uranium-238		1.529	351	1.490	pCi/g
CR36-043	748751.74	2086234.581	1.0	1.2	Plutonium-239/240	U	1.032	50	0.020	pCi/g
CR36-043	748751.74	2086234.581	1	1.2	Uranium-235		0.199	8	0.120	pCi/g
CR36-043	748751.74	2086234.581	1	1.2	Uranium-238		1.661	351	1.490	pCi/g
CR36-044	748722.173	2086204.964	0.8	1.0	Plutonium-239/240	U	2.415	50	0.020	pCi/g
CR36-044	748722.173	2086204.964	0.8	1	Uranium-235		0.336	8	0.120	pCi/g
CR36-045	748692.344	2086175.314	0.5	0.7	Americium-241		6.886	76	0.020	pCi/g
CR36-045	748692.344	2086175.314	0.5	0.7	Plutonium-239/240		39.250	50	0.020	pCi/g
CR36-045	748692.344	2086175.314	0.5	0.7	Uranium-235		0.233	8	0.120	pCi/g
CR36-045	748692.344	2086175.314	0.5	0.7	Uranium-238		1.907	351	1.490	pCi/g
CR36-046	748662.545	2086145.649	0.5	0.7	Americium-241		0.720	76	0.020	pCi/g
CR36-046	748662.545	2086145.649	0.5	0.7	Plutonium-239/240		4.102	50	0.020	pCi/g
CR36-046	748662.545	2086145.649	0.5	0.7	Uranium-235		0.297	8	0.120	pCi/g
CR36-047	748751.788	2086175.144	0.8	1	Americium-241		4.920	76	0.020	pCi/g
CR36-047	748751.788	2086175.144	0.8	1	Plutonium-239/240		28.044	50	0.020	pCi/g
CR36-048	748722.042	2086145.453	0.5	0.7	Americium-241		0.793	76	0.020	pCi/g
CR36-048	748722.042	2086145.453	0.5	0.7	Plutonium-239/240		4.519	50	0.020	pCi/g
CR36-049	748591.926	2086325.202	0.9	1.1	Americium-241		0.375	76	0.020	pCi/g
CR36-049	748591.926	2086325.202	0.9	1.1	Plutonium-239/240		2.137	50	0.020	pCi/g
CR36-050	748573.086	2086278.946	0	1	Americium-241		2.445	76	0.020	pCi/g
CR36-050	748573.086	2086278.946	0	1	Plutonium-239/240		13.937	50	0.020	pCi/g
CR36-051	748638.212	2086306.451	1.3	1.5	Americium-241		3.200	76	0.020	pCi/g
CR36-051	748638.212	2086306.451	1.3	1.5	Plutonium-239/240		18.240	50	0.020	pCi/g
CR36-051	748638.212	2086306.451	1.3	1.5	Uranium-234		5.525	300	2.640	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR36-051	748638.212	2086306.451	1.3	1.5	Uranium-235		0.253	8	0.120	pCi/g
CR36-051	748638.212	2086306.451	1.3	1.5	Uranium-238		5.525	351	1.490	pCi/g
CR37-020	748958.874	2086316.267	0.8	0.9	Americium-241		4.692	76	0.020	pCi/g
CR37-020	748958.874	2086316.267	0.8	0.9	Plutonium-239/240		26.744	50	0.020	pCi/g
CR37-021	748875.621	2086316.267	0.8	0.9	Americium-241		2.487	76	0.020	pCi/g
CR37-021	748875.621	2086316.267	0.8	0.9	Plutonium-239/240		14.176	50	0.020	pCi/g
CR37-021	748875.621	2086316.267	0.8	0.9	Uranium-235		0.124	8	0.120	pCi/g
CR37-021	748875.621	2086316.267	0.8	0.9	Uranium-238		1.565	351	1.490	pCi/g
CR37-022	748875.621	2086147.427	0.8	0.9	Americium-241		3.949	76	0.020	pCi/g
CR37-022	748875.621	2086147.427	0.8	0.9	Plutonium-239/240		22.509	50	0.020	pCi/g
CR37-022	748875.621	2086147.427	0.8	0.9	Uranium-235		0.159	8	0.120	pCi/g
CR37-022	748875.621	2086147.427	0.8	0.9	Uranium-238		1.674	351	1.490	pCi/g
CR37-023	748832.836	2086148.185	1.5	1.7	Plutonium-239/240		0.563	50	0.020	pCi/g
CR37-023	748832.836	2086148.185	1.5	1.7	Uranium-235		0.133	8	0.120	pCi/g
CR37-024	748832.839	2086190.222	1.5	1.7	Plutonium-239/240	U	1.157	50	0.020	pCi/g
CR37-024	748832.839	2086190.222	1.5	1.7	Uranium-235		0.162	8	0.120	pCi/g
CR37-025	748832.805	2086232.226	1.5	1.7	Americium-241		0.397	76	0.020	pCi/g
CR37-025	748832.805	2086232.226	1.5	1.7	Plutonium-239/240		2.265	50	0.020	pCi/g
CR37-026	748832.813	2086274.256	0.5	0.7	Americium-241		1.618	76	0.020	pCi/g
CR37-026	748832.813	2086274.256	0.5	0.7	Plutonium-239/240		9.223	50	0.020	pCi/g
CR37-026	748832.813	2086274.256	0.5	0.7	Uranium-235		0.194	8	0.120	pCi/g
CR37-026	748832.813	2086274.256	0.5	0.7	Uranium-238		1.694	351	1.490	pCi/g
CR37-027	748833.612	2086316.285	1.5	1.7	Americium-241		2.371	76	0.020	pCi/g
CR37-027	748833.612	2086316.285	1.5	1.7	Plutonium-239/240		13.515	50	0.020	pCi/g
CR37-028	748959.265	2086274.412	0.8	0.9	Americium-241		2.944	76	0.020	pCi/g
CR37-028	748959.265	2086274.412	0.8	0.9	Plutonium-239/240		16.781	50	0.020	pCi/g
CR37-028	748959.265	2086274.412	0.8	0.9	Uranium-235		0.223	8	0.120	pCi/g
CR37-029	748959.265	2086232.187	0.8	1	Americium-241		1.847	76	0.020	pCi/g
CR37-029	748959.265	2086232.187	0.8	1	Plutonium-239/240		10.528	50	0.020	pCi/g
CR37-029	748959.265	2086232.187	0.8	1	Uranium-234		3.386	300	2.640	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR37-029	748959.265	2086232.187	0.8	1	Uranium-238		3.386	351	1.490	pCi/g
CR37-030	748958.695	2086190.532	0.8	1	Americium-241		2.235	76	0.020	pCi/g
CR37-030	748958.695	2086190.532	0.8	1	Plutonium-239/240		12.740	50	0.020	pCi/g
CR37-030	748958.695	2086190.532	0.8	1	Uranium-238		1.689	351	1.490	pCi/g
CR37-031	748958.695	2086148.877	0.8	0.9	Americium-241		2.269	76	0.020	pCi/g
CR37-031	748958.695	2086148.877	0.8	0.9	Plutonium-239/240		12.933	50	0.020	pCi/g
CR37-032	748917.611	2086147.736	0.8	0.9	Americium-241		1.198	76	0.020	pCi/g
CR37-032	748917.611	2086147.736	0.8	0.9	Plutonium-239/240		6.829	50	0.020	pCi/g
CR37-032	748917.611	2086147.736	0.8	0.9	Uranium-235		0.122	8	0.120	pCi/g
CR37-032	748917.611	2086147.736	0.8	0.9	Uranium-235		0.125	8	0.120	pCi/g
CR37-033	748918.181	2086190.532	0.5	0.8	Americium-241		2.884	76	0.020	pCi/g
CR37-033	748918.181	2086190.532	0.5	0.8	Plutonium-239/240		16.439	50	0.020	pCi/g
CR37-033	748918.181	2086190.532	0.5	0.8	Uranium-238		1.620	351	1.490	pCi/g
CR37-034	748917.04	2086232.757	0.5	0.6	Americium-241		1.937	76	0.020	pCi/g
CR37-034	748917.04	2086232.757	0.5	0.6	Plutonium-239/240		11.041	50	0.020	pCi/g
CR37-034	748917.04	2086232.757	0.5	0.6	Uranium-235		0.141	8	0.120	pCi/g
CR37-035	748917.611	2086274.412	0.8	0.9	Americium-241		0.466	76	0.020	pCi/g
CR37-035	748917.611	2086274.412	0.8	0.9	Plutonium-239/240		2.400	50	0.020	pCi/g
CR37-035	748917.611	2086274.412	0.8	0.9	Uranium-235		0.140	8	0.120	pCi/g
CR37-035	748917.611	2086274.412	0.8	0.9	Uranium-238		1.919	351	1.490	pCi/g
CR37-036	748917.04	2086316.637	0.5	0.6	Americium-241		8.009	76	0.020	pCi/g
CR37-036	748917.04	2086316.637	0.5	0.6	Plutonium-239/240		45.651	50	0.020	pCi/g
CR37-036	748917.04	2086316.637	0.5	0.6	Uranium-235		0.168	8	0.120	pCi/g
CR37-037	748874.815	2086273.841	0.8	0.9	Americium-241		7.190	76	0.020	pCi/g
CR37-037	748874.815	2086273.841	0.8	0.9	Plutonium-239/240		40.983	50	0.020	pCi/g
CR37-037	748874.815	2086273.841	0.8	0.9	Uranium-235		0.123	8	0.120	pCi/g
CR37-038	748874.815	2086232.757	0.5	0.6	Americium-241		0.632	76	0.020	pCi/g
CR37-038	748874.815	2086232.757	0.5	0.6	Plutonium-239/240		3.601	50	0.020	pCi/g
CR37-039	748875.385	2086190.532	0.5	0.8	Americium-241		7.001	76	0.020	pCi/g
CR37-039	748875.385	2086190.532	0.5	0.8	Plutonium-239/240		39.906	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR37-064	748781.702	2086323.555	0.5	0.7	Americium-241		0.605	76	0.020	pCi/g
CR37-064	748781.702	2086323.555	0.5	0.7	Plutonium-239/240		3.446	50	0.020	pCi/g
CR37-064	748781.702	2086323.555	0.5	0.7	Uranium-235		0.240	8	0.120	pCi/g
CR37-065	748781.65	2086264.189	0.5	0.7	Americium-241		0.979	76	0.020	pCi/g
CR37-065	748781.65	2086264.189	0.5	0.7	Plutonium-239/240		5.582	50	0.020	pCi/g
CR37-065	748781.65	2086264.189	0.5	0.7	Uranium-235		0.171	8	0.120	pCi/g
CR37-066	748781.484	2086204.829	0.5	0.7	Americium-241		0.839	76	0.020	pCi/g
CR37-066	748781.484	2086204.829	0.5	0.7	Plutonium-239/240		4.781	50	0.020	pCi/g
CR37-067	748781.462	2086145.445	0.5	0.7	Americium-241		2.400	76	0.020	pCi/g
CR37-067	748781.462	2086145.445	0.5	0.7	Plutonium-239/240		14.500	50	0.020	pCi/g
CR38-020	749127.715	2086315.489	0.5	0.6	Americium-241		2.293	76	0.020	pCi/g
CR38-020	749127.715	2086315.489	0.5	0.6	Plutonium-239/240		13.070	50	0.020	pCi/g
CR38-020	749127.715	2086315.489	0.5	0.6	Uranium-235		0.140	8	0.120	pCi/g
CR38-021	749127.715	2086189.442	1.7	1.8	Americium-241		0.797	76	0.020	pCi/g
CR38-021	749127.715	2086189.442	1.7	1.8	Plutonium-239/240		4.542	50	0.020	pCi/g
CR38-022	749127.715	2086148.205	0.8	1	Americium-241		1.616	76	0.020	pCi/g
CR38-022	749127.715	2086148.205	0.8	1	Plutonium-239/240		9.211	50	0.020	pCi/g
CR38-022	749127.715	2086148.205	0.8	1	Uranium-235		0.154	8	0.120	pCi/g
CR38-022	749127.715	2086148.205	0.8	1	Uranium-238		1.709	351	1.490	pCi/g
CR38-023	749001.668	2086147.427	0.8	0.9	Americium-241		5.498	76	0.020	pCi/g
CR38-023	749001.668	2086147.427	0.8	0.9	Plutonium-239/240		31.339	50	0.020	pCi/g
CR38-023	749001.668	2086147.427	0.8	0.9	Uranium-235		0.218	8	0.120	pCi/g
CR38-024	749000.112	2086232.236	0.8	0.9	Americium-241		2.553	76	0.020	pCi/g
CR38-024	749000.112	2086232.236	0.8	0.9	Plutonium-239/240		14.552	50	0.020	pCi/g
CR38-024	749000.112	2086232.236	0.8	0.9	Uranium-235		0.140	8	0.120	pCi/g
CR38-025	749001.491	2086274.983	0.8	0.9	Americium-241		3.150	76	0.020	pCi/g
CR38-025	749001.491	2086274.983	0.8	0.9	Plutonium-239/240		20.300	50	0.020	pCi/g
CR38-026	749001.491	2086317.208	1	1.1	Americium-241		3.224	76	0.020	pCi/g
CR38-026	749001.491	2086317.208	1	1.1	Plutonium-239/240		18.377	50	0.020	pCi/g
CR38-027	749127.026	2086274.412	1	1.1	Americium-241		4.957	76	0.020	pCi/g

hl

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR38-027	749127.026	2086274.412	1	1.1	Plutonium-239/240		28.255	50	0.020	pCi/g
CR38-027	749127.026	2086274.412	1	1.1	Uranium-235		0.169	8	0.120	pCi/g
CR38-027	749127.026	2086274.412	1	1.1	Uranium-238		2.083	351	1.490	pCi/g
CR38-028	749127.026	2086232.757	1	1.2	Americium-241		1.968	76	0.020	pCi/g
CR38-028	749127.026	2086232.757	1	1.2	Plutonium-239/240		11.218	50	0.020	pCi/g
CR38-029	749084.8	2086148.877	1	1.1	Americium-241		5.626	76	0.020	pCi/g
CR38-029	749084.8	2086148.877	1	1.1	Plutonium-239/240		32.068	50	0.020	pCi/g
CR38-029	749084.8	2086148.877	1	1.1	Uranium-234		4.678	300	2.640	pCi/g
CR38-029	749084.8	2086148.877	1	1.1	Uranium-235		0.244	8	0.120	pCi/g
CR38-029	749084.8	2086148.877	1	1.1	Uranium-238		4.678	351	1.490	pCi/g
CR38-030	749084.8	2086191.102	1	1.1	Americium-241		2.299	76	0.020	pCi/g
CR38-030	749084.8	2086191.102	1	1.1	Plutonium-239/240		13.104	50	0.020	pCi/g
CR38-030	749084.8	2086191.102	1	1.1	Uranium-235		0.128	8	0.120	pCi/g
CR38-031	749085.371	2086232.187	1	1.1	Americium-241		2.134	76	0.020	pCi/g
CR38-031	749085.371	2086232.187	1	1.1	Plutonium-239/240		12.164	50	0.020	pCi/g
CR38-032	749085.371	2086274.983	0.8	1	Americium-241		0.449	76	0.020	pCi/g
CR38-032	749085.371	2086274.983	0.8	1	Plutonium-239/240		2.561	50	0.020	pCi/g
CR38-034	749042.575	2086316.637	0.5	0.6	Americium-241		2.765	76	0.020	pCi/g
CR38-034	749042.575	2086316.637	0.5	0.6	Plutonium-239/240		15.761	50	0.020	pCi/g
CR38-034	749042.575	2086316.637	0.5	0.6	Uranium-238		1.722	351	1.490	pCi/g
CR38-035	749042.575	2086274.412	0.8	1	Americium-241		3.935	76	0.020	pCi/g
CR38-035	749042.575	2086274.412	0.8	1	Plutonium-239/240		22.430	50	0.020	pCi/g
CR38-035	749042.575	2086274.412	0.8	1	Uranium-238		1.943	351	1.490	pCi/g
CR38-036	749042.575	2086232.757	0.5	0.8	Americium-241		4.662	76	0.020	pCi/g
CR38-036	749042.575	2086232.757	0.5	0.8	Plutonium-239/240		26.573	50	0.020	pCi/g
CR38-037	749042.575	2086190.532	0.5	0.8	Americium-241		7.613	76	0.020	pCi/g
CR38-037	749042.575	2086190.532	0.5	0.8	Plutonium-239/240		43.394	50	0.020	pCi/g
CR38-038	749043.146	2086148.306	0.8	1	Americium-241		2.077	76	0.020	pCi/g
CR38-038	749043.146	2086148.306	0.8	1	Plutonium-239/240		11.839	50	0.020	pCi/g
CR38-038	749043.146	2086148.306	0.8	1	Uranium-234		2.756	300	2.640	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR38-038	749043.146	2086148.306	0.8	1	Uranium-235		0.136	8	0.120	pCi/g
CR38-038	749043.146	2086148.306	0.8	1	Uranium-238		2.756	351	1.490	pCi/g
CR38-039	749000.92	2086190.532	0.5	0.6	Uranium-235		0.131	8	0.120	pCi/g
CR38-039	749000.92	2086190.532	0.5	0.6	Uranium-238		1.961	351	1.490	pCi/g
CR38-039	749000.92	2086190.532	0.8	1	Americium-241		0.621	76	0.020	pCi/g
CR39-019	749249.858	2086149.253	1.5	1.7	Americium-241		4.966	76	0.020	pCi/g
CR39-019	749249.858	2086149.253	1.5	1.7	Plutonium-239/240		28.306	50	0.020	pCi/g
CR39-019	749249.858	2086149.253	1.5	1.7	Uranium-234		2.703	300	2.640	pCi/g
CR39-019	749249.858	2086149.253	1.5	1.7	Uranium-238		2.703	351	1.490	pCi/g
CR39-020	749251.471	2086318.358	1	1.2	Americium-241		1.093	76	0.020	pCi/g
CR39-020	749251.471	2086318.358	1	1.2	Plutonium-239/240		6.230	50	0.020	pCi/g
CR39-020	749251.471	2086318.358	1	1.2	Uranium-235		0.143	8	0.120	pCi/g
CR39-021	749168.952	2086148.205	0.5	0.8	Uranium-234		4.054	300	2.640	pCi/g
CR39-021	749168.952	2086148.205	0.5	0.8	Uranium-235		0.189	8	0.120	pCi/g
CR39-021	749168.952	2086148.205	0.5	0.8	Uranium-238		4.054	351	1.490	pCi/g
CR39-021	749168.952	2086148.205	1	1.2	Americium-241		3.236	76	0.020	pCi/g
CR39-021	749168.952	2086148.205	1	1.2	Plutonium-239/240		18.445	50	0.020	pCi/g
CR39-021	749168.952	2086148.205	1	1.2	Uranium-238		2.110	351	1.490	pCi/g
CR39-022	749252.561	2086190.532	0.5	1	Americium-241		4.293	76	0.020	pCi/g
CR39-022	749252.561	2086190.532	0.5	1	Plutonium-239/240		24.470	50	0.020	pCi/g
CR39-023	749252.561	2086232.757	0.8	1	Americium-241		2.587	76	0.020	pCi/g
CR39-023	749252.561	2086232.757	0.8	1	Plutonium-239/240		14.746	50	0.020	pCi/g
CR39-023	749252.561	2086232.757	0.8	1	Uranium-235		0.136	8	0.120	pCi/g
CR39-024	749253.132	2086274.412	0.8	1	Americium-241		1.010	76	0.020	pCi/g
CR39-024	749253.132	2086274.412	0.8	1	Plutonium-239/240		5.757	50	0.020	pCi/g
CR39-025	749211.477	2086316.637	1	1.1	Americium-241		2.861	76	0.020	pCi/g
CR39-025	749211.477	2086316.637	1	1.1	Plutonium-239/240		16.308	50	0.020	pCi/g
CR39-025	749211.477	2086316.637	1	1.1	Uranium-235		0.151	8	0.120	pCi/g
CR39-025	749211.477	2086316.637	1	1.1	Uranium-238		1.552	351	1.490	pCi/g
CR39-026	749210.906	2086273.841	0.5	0.6	Americium-241		1.499	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR39-026	749210.906	2086273.841	0.5	0.6	Plutonium-239/240		8.544	50	0.020	pCi/g
CR39-026	749210.906	2086273.841	0.5	0.6	Uranium-238		1.525	351	1.490	pCi/g
CR39-027	749210.906	2086232.187	0.8	1	Americium-241		5.044	76	0.020	pCi/g
CR39-027	749210.906	2086232.187	0.8	1	Plutonium-239/240		28.751	50	0.020	pCi/g
CR39-027	749210.906	2086232.187	0.8	1	Uranium-235		0.140	8	0.120	pCi/g
CR39-028	749210.906	2086190.532	1	1.3	Americium-241		1.052	76	0.020	pCi/g
CR39-028	749210.906	2086190.532	1	1.3	Plutonium-239/240		5.996	50	0.020	pCi/g
CR39-028	749210.906	2086190.532	1	1.3	Uranium-238		1.905	351	1.490	pCi/g
CR39-029	749211.477	2086148.306	1.8	2	Americium-241		2.050	76	0.020	pCi/g
CR39-029	749211.477	2086148.306	1.8	2	Plutonium-239/240		11.900	50	0.020	pCi/g
CR39-029	749211.477	2086148.306	1.8	2	Uranium-235		0.153	8	0.120	pCi/g
CR39-029	749211.477	2086148.306	1.8	2	Uranium-238		2.206	351	1.490	pCi/g
CR39-030	749169.251	2086190.532	0.5	0.8	Uranium-235		0.195	8	0.120	pCi/g
CR39-030	749169.251	2086190.532	0.5	0.8	Uranium-238		1.931	351	1.490	pCi/g
CR39-030	749169.251	2086190.532	1	1.2	Americium-241		1.202	76	0.020	pCi/g
CR39-030	749169.251	2086190.532	1	1.2	Plutonium-239/240		6.851	50	0.020	pCi/g
CR39-030	749169.251	2086190.532	1	1.2	Uranium-235		0.182	8	0.120	pCi/g
CR39-031	749168.681	2086232.757	0.8	1	Americium-241		2.368	76	0.020	pCi/g
CR39-031	749168.681	2086232.757	0.8	1	Plutonium-239/240		13.498	50	0.020	pCi/g
CR39-031	749168.681	2086232.757	0.8	1	Uranium-235		0.146	8	0.120	pCi/g
CR39-032	749168.681	2086274.412	0.5	1	Americium-241		1.236	76	0.020	pCi/g
CR39-032	749168.681	2086274.412	0.5	1	Plutonium-239/240		7.045	50	0.020	pCi/g
CR39-033	749168.681	2086316.637	0.8	1	Americium-241		2.060	76	0.020	pCi/g
CR39-033	749168.681	2086316.637	0.8	1	Plutonium-239/240		14.700	50	0.020	pCi/g
CR39-033	749168.681	2086316.637	0.8	1	Uranium-235		0.143	8	0.120	pCi/g
CR39-053	749295.478	2086146.304	0.0	0.3	Plutonium-239/240	U	3.867	50	0.066	pCi/g
CR39-053	749295.478	2086146.304	0	0.3	Uranium-234		4.246	300	2.253	pCi/g
CR39-053	749295.478	2086146.304	0	0.3	Uranium-235		0.246	8	0.094	pCi/g
CR39-053	749295.478	2086146.304	0	0.3	Uranium-238		4.246	351	2.000	pCi/g
CR39-054	749296.396	2086188.587	0	0.5	Americium-241		0.917	76	0.023	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR39-054	749296.396	2086188.587	0	0.5	Plutonium-239/240		5.225	50	0.066	pCi/g
CR39-054	749296.396	2086188.587	0	0.5	Uranium-235		0.134	8	0.094	pCi/g
CR39-055	749295.55	2086231.622	0	0.3	Americium-241		1.564	76	0.023	pCi/g
CR39-055	749295.55	2086231.622	0	0.3	Plutonium-239/240		8.915	50	0.066	pCi/g
CR39-056	749295.502	2086272.196	0	0.3	Americium-241		1.412	76	0.023	pCi/g
CR39-056	749295.502	2086272.196	0	0.3	Plutonium-239/240		8.048	50	0.066	pCi/g
CR39-056	749295.502	2086272.196	0	0.3	Uranium-235		0.123	8	0.094	pCi/g
CR39-057	749296.327	2086314.28	0	0.3	Americium-241		0.413	76	0.023	pCi/g
CR39-057	749296.327	2086314.28	0	0.3	Plutonium-239/240		2.351	50	0.066	pCi/g
CR39-057	749296.327	2086314.28	0	0.3	Uranium-235		0.117	8	0.094	pCi/g
CR40-000	749363.848	2086137.505	0.0	0.5	Plutonium-239/240	U	3.745	50	0.066	pCi/g
CR40-000	749363.848	2086137.505	0	0.5	Uranium-234		4.248	300	2.253	pCi/g
CR40-000	749363.848	2086137.505	0	0.5	Uranium-235		0.228	8	0.094	pCi/g
CR40-000	749363.848	2086137.505	0	0.5	Uranium-238		4.248	351	2.000	pCi/g
CR40-001	749363.848	2086180.619	0	0.5	Americium-241		3.208	76	0.023	pCi/g
CR40-001	749363.848	2086180.619	0	0.5	Plutonium-239/240		18.286	50	0.066	pCi/g
CR40-001	749363.848	2086180.619	0	0.5	Uranium-235		0.126	8	0.094	pCi/g
CR40-003	749363.848	2086264.792	0	0.5	Americium-241		3.828	76	0.023	pCi/g
CR40-003	749363.848	2086264.792	0	0.5	Plutonium-239/240		21.820	50	0.066	pCi/g
CR40-003	749363.848	2086264.792	0	0.5	Uranium-235		0.152	8	0.094	pCi/g
CR40-009	749405.607	2086264.382	0	0.3	Americium-241		7.028	76	0.023	pCi/g
CR40-009	749405.607	2086264.382	0	0.3	Plutonium-239/240		40.060	50	0.066	pCi/g
CR40-009	749405.607	2086264.382	0	0.3	Uranium-235		0.147	8	0.094	pCi/g
CR40-010	749447.607	2086306.382	0	0.3	Americium-241		0.696	76	0.023	pCi/g
CR40-010	749447.607	2086306.382	0	0.3	Plutonium-239/240		3.968	50	0.066	pCi/g
CR40-011	749408.427	2086304.702	0.7	0.9	Americium-241		1.100	76	0.020	pCi/g
CR40-011	749408.427	2086304.702	0.7	0.9	Plutonium-239/240		6.270	50	0.020	pCi/g
CR40-011	749408.427	2086304.702	0.7	0.9	Uranium-234		3.556	300	2.640	pCi/g
CR40-011	749408.427	2086304.702	0.7	0.9	Uranium-238		3.556	351	1.490	pCi/g
CR40-012	749368.319	2086306.942	0.5	0.7	Americium-241		3.507	76	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CR40-012	749368.319	2086306.942	0.5	0.7	Plutonium-239/240		19.990	50	0.020	pCi/g
CR40-012	749368.319	2086306.942	0.5	0.7	Uranium-235		0.131	8	0.120	pCi/g
CR40-012	749368.319	2086306.942	0.5	0.7	Uranium-238		2.086	351	1.490	pCi/g
CR40-013	749404.718	2086225.256	0.1	0.3	Americium-241		0.938	76	0.023	pCi/g
CR40-013	749404.718	2086225.256	0.1	0.3	Plutonium-239/240		5.347	50	0.066	pCi/g
CR40-014	749364.732	2086224.23	0.9	1.1	Americium-241		6.366	76	0.020	pCi/g
CR40-014	749364.732	2086224.23	0.9	1.1	Plutonium-239/240		36.286	50	0.020	pCi/g
CR40-014	749364.732	2086224.23	0.9	1.1	Uranium-235		0.151	8	0.120	pCi/g
CR40-014	749364.732	2086224.23	0.9	1.1	Uranium-238		2.244	351	1.490	pCi/g
CS34-006	748267.569	2086456.814	0.1	0.3	Americium-241		4.486	76	0.023	pCi/g
CS34-006	748267.569	2086456.814	0.1	0.3	Plutonium-239/240		25.570	50	0.066	pCi/g
CS34-006	748267.569	2086456.814	0.1	0.3	Uranium-235		0.237	8	0.094	pCi/g
CS34-007	748332.749	2086484.547	0.4	0.6	Americium-241		3.722	76	0.020	pCi/g
CS34-007	748332.749	2086484.547	0.4	0.6	Plutonium-239/240		21.215	50	0.020	pCi/g
CS34-007	748332.749	2086484.547	0.4	0.6	Uranium-235		0.218	8	0.120	pCi/g
CS34-007	748332.749	2086484.547	0.4	0.6	Uranium-238		1.491	351	1.490	pCi/g
CS34-008	748313.902	2086438.134	0.2	0.4	Americium-241		3.565	76	0.023	pCi/g
CS34-008	748313.902	2086438.134	0.2	0.4	Plutonium-239/240		20.321	50	0.066	pCi/g
CS34-008	748313.902	2086438.134	0.2	0.4	Uranium-235		0.248	8	0.094	pCi/g
CS34-009	748276.372	2086345.389	0.1	0.3	Americium-241		2.738	76	0.023	pCi/g
CS34-009	748276.372	2086345.389	0.1	0.3	Plutonium-239/240		15.607	50	0.066	pCi/g
CS34-009	748276.372	2086345.389	0.1	0.3	Uranium-235		0.257	8	0.094	pCi/g
CS34-010	748360.274	2086419.343	0.2	0.4	Americium-241		6.269	76	0.023	pCi/g
CS34-010	748360.274	2086419.343	0.2	0.4	Plutonium-239/240		35.733	50	0.066	pCi/g
CS34-010	748360.274	2086419.343	0.2	0.4	Uranium-235		0.183	8	0.094	pCi/g
CS34-011	748341.425	2086372.988	0.3	0.5	Americium-241		0.471	76	0.023	pCi/g
CS34-011	748341.425	2086372.988	0.3	0.5	Plutonium-239/240		2.684	50	0.066	pCi/g
CS34-011	748341.425	2086372.988	0.3	0.5	Uranium-235		0.185	8	0.094	pCi/g
CS35-006	748397.893	2086511.905	0.3	0.5	Americium-241		3.930	76	0.023	pCi/g
CS35-006	748397.893	2086511.905	0.3	0.5	Plutonium-239/240		27.200	50	0.066	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS35-007	748379.206	2086465.537	0.5	0.7	Americium-241		2.804	76	0.020	pCi/g
CS35-007	748379.206	2086465.537	0.5	0.7	Plutonium-239/240		15.983	50	0.020	pCi/g
CS35-007	748379.206	2086465.537	0.5	0.7	Uranium-235		0.256	8	0.120	pCi/g
CS35-007	748379.206	2086465.537	0.5	0.7	Uranium-238		2.384	351	1.490	pCi/g
CS35-008	748444.222	2086493.066	0	1.2	Americium-241		7.214	76	0.020	pCi/g
CS35-008	748444.222	2086493.066	0	1.2	Plutonium-239/240		41.120	50	0.020	pCi/g
CS35-008	748444.222	2086493.066	0	1.2	Uranium-235		0.217	8	0.120	pCi/g
CS35-009	748425.461	2086446.846	0.5	0.7	Americium-241		1.312	76	0.020	pCi/g
CS35-009	748425.461	2086446.846	0.5	0.7	Plutonium-239/240		7.478	50	0.020	pCi/g
CS35-009	748425.461	2086446.846	0.5	0.7	Uranium-235		0.177	8	0.120	pCi/g
CS35-009	748425.461	2086446.846	0.5	0.7	Uranium-238		2.129	351	1.490	pCi/g
CS35-010	748406.464	2086400.459	0.2	0.4	Americium-241		6.397	76	0.023	pCi/g
CS35-010	748406.464	2086400.459	0.2	0.4	Plutonium-239/240		36.463	50	0.066	pCi/g
CS35-010	748406.464	2086400.459	0.2	0.4	Uranium-234		5.156	300	2.253	pCi/g
CS35-010	748406.464	2086400.459	0.2	0.4	Uranium-235		0.237	8	0.094	pCi/g
CS35-010	748406.464	2086400.459	0.2	0.4	Uranium-238		5.156	351	2.000	pCi/g
CS35-011	748387.616	2086354.19	0.1	0.3	Americium-241		7.325	76	0.023	pCi/g
CS35-011	748387.616	2086354.19	0.1	0.3	Plutonium-239/240		41.753	50	0.066	pCi/g
CS35-012	748509.305	2086520.69	0.7	0.9	Americium-241		1.249	76	0.020	pCi/g
CS35-012	748509.305	2086520.69	0.7	0.9	Plutonium-239/240		7.119	50	0.020	pCi/g
CS35-012	748509.305	2086520.69	0.7	0.9	Uranium-235		0.170	8	0.120	pCi/g
CS35-012	748509.305	2086520.69	0.7	0.9	Uranium-238		1.547	351	1.490	pCi/g
CS35-013	748490.499	2086474.265	0.5	0.7	Americium-241		2.339	76	0.020	pCi/g
CS35-013	748490.499	2086474.265	0.5	0.7	Plutonium-239/240		13.332	50	0.020	pCi/g
CS35-013	748490.499	2086474.265	0.5	0.7	Uranium-235		0.253	8	0.120	pCi/g
CS35-013	748490.499	2086474.265	0.5	0.7	Uranium-238		1.640	351	1.490	pCi/g
CS35-014	748471.708	2086427.983	0.5	0.7	Americium-241		4.589	76	0.020	pCi/g
CS35-014	748471.708	2086427.983	0.5	0.7	Plutonium-239/240		26.157	50	0.020	pCi/g
CS35-014	748471.708	2086427.983	0.5	0.7	Uranium-235		0.223	8	0.120	pCi/g
CS35-014	748471.708	2086427.983	0.5	0.7	Uranium-238		2.047	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS35-015	748452.856	2086381.739	1.2	1.4	Americium-241		2.940	76	0.020	pCi/g
CS35-015	748452.856	2086381.739	1.2	1.4	Plutonium-239/240		10.800	50	0.020	pCi/g
CS35-015	748452.856	2086381.739	1.2	1.4	Uranium-235		0.187	8	0.120	pCi/g
CS35-015	748452.856	2086381.739	1.2	1.4	Uranium-238		1.892	351	1.490	pCi/g
CS35-016	748555.71	2086501.815	0.6	0.8	Americium-241		4.810	76	0.020	pCi/g
CS35-016	748555.71	2086501.815	0.6	0.8	Plutonium-239/240		27.417	50	0.020	pCi/g
CS35-016	748555.71	2086501.815	0.6	0.8	Uranium-235		0.182	8	0.120	pCi/g
CS35-016	748555.71	2086501.815	0.6	0.8	Uranium-238		1.583	351	1.490	pCi/g
CS35-017	748536.698	2086455.469	0.8	1	Americium-241		2.330	76	0.020	pCi/g
CS35-017	748536.698	2086455.469	0.8	1	Plutonium-239/240		13.281	50	0.020	pCi/g
CS35-017	748536.698	2086455.469	0.8	1	Uranium-235		0.260	8	0.120	pCi/g
CS35-017	748536.698	2086455.469	0.8	1	Uranium-238		2.402	351	1.490	pCi/g
CS35-018	748518.07	2086409.268	0.6	0.8	Americium-241		4.268	76	0.020	pCi/g
CS35-018	748518.07	2086409.268	0.6	0.8	Plutonium-239/240		24.328	50	0.020	pCi/g
CS35-018	748518.07	2086409.268	0.6	0.8	Uranium-234		5.093	300	2.640	pCi/g
CS35-018	748518.07	2086409.268	0.6	0.8	Uranium-235		0.269	8	0.120	pCi/g
CS35-018	748518.07	2086409.268	0.6	0.8	Uranium-238		5.093	351	1.490	pCi/g
CS35-019	748499.206	2086362.797	0.4	0.6	Americium-241		1.681	76	0.020	pCi/g
CS35-019	748499.206	2086362.797	0.4	0.6	Plutonium-239/240		9.582	50	0.020	pCi/g
CS35-019	748499.206	2086362.797	0.4	0.6	Uranium-234		5.136	300	2.640	pCi/g
CS35-019	748499.206	2086362.797	0.4	0.6	Uranium-235		0.216	8	0.120	pCi/g
CS35-019	748499.206	2086362.797	0.4	0.6	Uranium-238		5.136	351	1.490	pCi/g
CS35-020	748545.57	2086344.003	0.3	0.5	Americium-241		0.688	76	0.023	pCi/g
CS35-020	748545.57	2086344.003	0.3	0.5	Plutonium-239/240		3.921	50	0.066	pCi/g
CS35-020	748545.57	2086344.003	0.3	0.5	Uranium-235		0.246	8	0.094	pCi/g
CS36-002	748751.946	2086353.226	1.8	2	Americium-241		1.070	76	0.020	pCi/g
CS36-002	748751.946	2086353.226	1.8	2	Plutonium-239/240		6.530	50	0.020	pCi/g
CS36-002	748751.946	2086353.226	1.8	2	Uranium-234		4.897	300	2.640	pCi/g
CS36-002	748751.946	2086353.226	1.8	2	Uranium-235		0.265	8	0.120	pCi/g
CS36-002	748751.946	2086353.226	1.8	2	Uranium-238		4.897	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS36-003	748620.889	2086529.39	0.9	1.1	Americium-241		0.506	76	0.020	pCi/g
CS36-003	748620.889	2086529.39	0.9	1.1	Plutonium-239/240		2.886	50	0.020	pCi/g
CS36-003	748620.889	2086529.39	0.9	1.1	Uranium-238		2.077	351	1.490	pCi/g
CS36-004	748602.061	2086483.109	0.8	1	Americium-241		1.012	76	0.020	pCi/g
CS36-004	748602.061	2086483.109	0.8	1	Plutonium-239/240		5.768	50	0.020	pCi/g
CS36-004	748602.061	2086483.109	0.8	1	Uranium-235		0.140	8	0.120	pCi/g
CS36-004	748602.061	2086483.109	0.8	1	Uranium-238		1.871	351	1.490	pCi/g
CS36-005	748583.296	2086436.72	1.2	1.4	Plutonium-239/240	U	2.335	50	0.020	pCi/g
CS36-005	748583.296	2086436.72	1.2	1.4	Uranium-238		2.222	351	1.490	pCi/g
CS36-006	748564.337	2086390.359	0.5	0.7	Americium-241		5.572	76	0.020	pCi/g
CS36-006	748564.337	2086390.359	0.5	0.7	Plutonium-239/240		31.760	50	0.020	pCi/g
CS36-006	748564.337	2086390.359	0.5	0.7	Uranium-235		0.189	8	0.120	pCi/g
CS36-007	748667.197	2086510.553	0.6	0.8	Americium-241		1.692	76	0.020	pCi/g
CS36-007	748667.197	2086510.553	0.6	0.8	Plutonium-239/240		9.644	50	0.020	pCi/g
CS36-007	748667.197	2086510.553	0.6	0.8	Uranium-235		0.185	8	0.120	pCi/g
CS36-007	748667.197	2086510.553	0.6	0.8	Uranium-238		2.121	351	1.490	pCi/g
CS36-008	748648.321	2086464.242	0.7	0.9	Americium-241		1.005	76	0.020	pCi/g
CS36-008	748648.321	2086464.242	0.7	0.9	Plutonium-239/240		5.729	50	0.020	pCi/g
CS36-008	748648.321	2086464.242	0.7	0.9	Uranium-234		5.421	300	2.640	pCi/g
CS36-008	748648.321	2086464.242	0.7	0.9	Uranium-235		0.306	8	0.120	pCi/g
CS36-008	748648.321	2086464.242	0.7	0.9	Uranium-238		5.421	351	1.490	pCi/g
CS36-009	748629.523	2086417.943	0.5	0.7	Americium-241		2.304	76	0.020	pCi/g
CS36-009	748629.523	2086417.943	0.5	0.7	Plutonium-239/240		13.133	50	0.020	pCi/g
CS36-009	748629.523	2086417.943	0.5	0.7	Uranium-238		2.339	351	1.490	pCi/g
CS36-010	748610.664	2086371.548	0.6	0.8	Americium-241		1.592	76	0.020	pCi/g
CS36-010	748610.664	2086371.548	0.6	0.8	Plutonium-239/240		9.074	50	0.020	pCi/g
CS36-010	748610.664	2086371.548	0.6	0.8	Uranium-235		0.138	8	0.120	pCi/g
CS36-011	748713.551	2086491.729	0.5	0.7	Americium-241		5.570	76	0.020	pCi/g
CS36-011	748713.551	2086491.729	0.5	0.7	Plutonium-239/240		24.700	50	0.020	pCi/g
CS36-011	748713.551	2086491.729	0.5	0.7	Uranium-235		0.219	8	0.120	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS36-011	748713.551	2086491.729	0.5	0.7	Uranium-238	V	1.510	351	1.490	pCi/g
CS36-011	748713.551	2086491.729	0.5	0.7	Uranium-238		2.356	351	1.490	pCi/g
CS36-012	748694.697	2086445.352	0.3	0.5	Americium-241		1.485	76	0.023	pCi/g
CS36-012	748694.697	2086445.352	0.3	0.5	Plutonium-239/240		8.465	50	0.066	pCi/g
CS36-012	748694.697	2086445.352	0.3	0.5	Uranium-234		4.807	300	2.253	pCi/g
CS36-012	748694.697	2086445.352	0.3	0.5	Uranium-235		0.284	8	0.094	pCi/g
CS36-012	748694.697	2086445.352	0.3	0.5	Uranium-238		4.807	351	2.000	pCi/g
CS36-013	748675.931	2086399.047	0.2	0.4	Americium-241		4.514	76	0.023	pCi/g
CS36-013	748675.931	2086399.047	0.2	0.4	Plutonium-239/240		25.730	50	0.066	pCi/g
CS36-013	748675.931	2086399.047	0.2	0.4	Uranium-235		0.161	8	0.094	pCi/g
CS36-014	748657.004	2086352.727	0.7	0.9	Americium-241		0.346	76	0.020	pCi/g
CS36-014	748657.004	2086352.727	0.7	0.9	Plutonium-239/240		1.970	50	0.020	pCi/g
CS36-014	748657.004	2086352.727	0.7	0.9	Uranium-235		0.145	8	0.120	pCi/g
CS36-014	748657.004	2086352.727	0.7	0.9	Uranium-238		2.300	351	1.490	pCi/g
CS36-015	748759.8	2086472.884	1	1.2	Americium-241		0.284	76	0.020	pCi/g
CS36-015	748759.8	2086472.884	1	1.2	Plutonium-239/240		1.616	50	0.020	pCi/g
CS36-015	748759.8	2086472.884	1	1.2	Uranium-235		0.148	8	0.120	pCi/g
CS36-016	748741.026	2086426.544	0.8	1.0	Plutonium-239/240	U	0.838	50	0.020	pCi/g
CS36-016	748741.026	2086426.544	0.8	1	Uranium-235		0.126	8	0.120	pCi/g
CS36-017	748722.142	2086380.301	0.5	0.7	Americium-241		3.470	76	0.020	pCi/g
CS36-017	748722.142	2086380.301	0.5	0.7	Plutonium-239/240		16.700	50	0.020	pCi/g
CS36-017	748722.142	2086380.301	0.5	0.7	Uranium-234		3.470	300	2.640	pCi/g
CS36-017	748722.142	2086380.301	0.5	0.7	Uranium-235		0.279	8	0.120	pCi/g
CS36-017	748722.142	2086380.301	0.5	0.7	Uranium-238		3.470	351	1.490	pCi/g
CS37-016	748892.2174	2086386.937	0.5	0.6	Americium-241		2.328	76	0.020	pCi/g
CS37-016	748892.2174	2086386.937	0.5	0.6	Plutonium-239/240		13.270	50	0.020	pCi/g
CS37-017	748875.621	2086358.283	0.8	0.9	Americium-241		1.064	76	0.020	pCi/g
CS37-017	748875.621	2086358.283	0.8	0.9	Plutonium-239/240		6.065	50	0.020	pCi/g
CS37-018	748833.497	2086358.24	1.2	1.4	Americium-241		3.277	76	0.020	pCi/g
CS37-018	748833.497	2086358.24	1.2	1.4	Plutonium-239/240		18.679	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	AL	Bkg	Units
CS37-019	748959.265	2086480.404	0.5	0.8	Americium-241		0.905	76	0.020	pCi/g
CS37-019	748959.265	2086480.404	0.5	0.8	Americium-241		1.119	76	0.020	pCi/g
CS37-019	748959.265	2086480.404	0.5	0.8	Plutonium-239/240		6.240	50	0.020	pCi/g
CS37-019	748959.265	2086480.404	0.5	0.8	Uranium-234		3.728	300	2.640	pCi/g
CS37-019	748959.265	2086480.404	0.5	0.8	Uranium-235		0.202	8	0.120	pCi/g
CS37-019	748959.265	2086480.404	0.5	0.8	Uranium-238		3.728	351	1.490	pCi/g
CS37-020	748958.124	2086442.743	0.5	0.6	Americium-241		6.763	76	0.020	pCi/g
CS37-020	748958.124	2086442.743	0.5	0.6	Plutonium-239/240		38.549	50	0.020	pCi/g
CS37-020	748958.124	2086442.743	0.5	0.6	Uranium-235		0.155	8	0.120	pCi/g
CS37-021	748959.265	2086401.088	1.5	1.6	Americium-241		2.430	76	0.020	pCi/g
CS37-021	748959.265	2086401.088	1.5	1.6	Plutonium-239/240		13.851	50	0.020	pCi/g
CS37-021	748959.265	2086401.088	1.5	1.6	Uranium-235		0.180	8	0.120	pCi/g
CS37-022	748959.836	2086358.292	0.5	0.6	Americium-241		4.100	76	0.020	pCi/g
CS37-022	748959.836	2086358.292	0.5	0.6	Plutonium-239/240		23.370	50	0.020	pCi/g
CS37-022	748959.836	2086358.292	0.5	0.6	Uranium-235		0.136	8	0.120	pCi/g
CS37-023	748917.04	2086358.292	0.8	0.9	Americium-241		3.472	76	0.020	pCi/g
CS37-023	748917.04	2086358.292	0.8	0.9	Plutonium-239/240		19.790	50	0.020	pCi/g
CS37-024	748917.04	2086400.518	0.8	0.9	Americium-241		0.736	76	0.020	pCi/g
CS37-024	748917.04	2086400.518	0.8	0.9	Plutonium-239/240		4.197	50	0.020	pCi/g
CS37-024	748917.04	2086400.518	0.8	0.9	Uranium-235		0.152	8	0.120	pCi/g
CS37-024	748917.04	2086400.518	0.8	0.9	Uranium-238		1.824	351	1.490	pCi/g
CS37-025	748917.04	2086442.743	1	1.1	Americium-241		2.712	76	0.020	pCi/g
CS37-025	748917.04	2086442.743	1	1.1	Plutonium-239/240		15.458	50	0.020	pCi/g
CS37-025	748917.04	2086442.743	1	1.1	Uranium-235		0.137	8	0.120	pCi/g
CS37-026	748874.815	2086441.602	0.5	0.6	Americium-241		5.287	76	0.020	pCi/g
CS37-026	748874.815	2086441.602	0.5	0.6	Plutonium-239/240		30.136	50	0.020	pCi/g
CS37-026	748874.815	2086441.602	0.5	0.6	Uranium-235		0.134	8	0.120	pCi/g
CS37-026	748874.815	2086441.602	0.5	0.6	Uranium-238		1.569	351	1.490	pCi/g
CS37-027	748832.589	2086400.518	0.5	0.6	Americium-241		3.730	76	0.020	pCi/g
CS37-027	748832.589	2086400.518	0.5	0.6	Plutonium-239/240		18.800	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS37-041	748781.931	2086382.979	0.5	0.7	Americium-241		3.632	76	0.020	pCi/g
CS37-041	748781.931	2086382.979	0.5	0.7	Plutonium-239/240		20.702	50	0.020	pCi/g
CS37-041	748781.931	2086382.979	0.5	0.7	Uranium-235		0.196	8	0.120	pCi/g
CS37-041	748781.931	2086382.979	0.5	0.7	Uranium-238		1.693	351	1.490	pCi/g
CS37-042	748916.86	2086484.1	0.5	0.8	Americium-241		2.134	76	0.020	pCi/g
CS37-042	748916.86	2086484.1	0.5	0.8	Plutonium-239/240		12.164	50	0.020	pCi/g
CS37-042	748916.86	2086484.1	0.5	0.8	Uranium-238		1.777	351	1.490	pCi/g
CS37-043	748778.683	2086519.254	0.8	1	Americium-241		6.688	76	0.020	pCi/g
CS37-043	748778.683	2086519.254	0.8	1	Plutonium-239/240		38.122	50	0.020	pCi/g
CS37-043	748778.683	2086519.254	0.8	1	Uranium-235		0.162	8	0.120	pCi/g
CS37-044	748824.916	2086500.504	0.4	0.6	Americium-241		4.588	76	0.020	pCi/g
CS37-044	748824.916	2086500.504	0.4	0.6	Plutonium-239/240		26.152	50	0.020	pCi/g
CS37-044	748824.916	2086500.504	0.4	0.6	Uranium-234		3.254	300	2.640	pCi/g
CS37-044	748824.916	2086500.504	0.4	0.6	Uranium-235		0.193	8	0.120	pCi/g
CS37-044	748824.916	2086500.504	0.4	0.6	Uranium-238		3.254	351	1.490	pCi/g
CS37-045	748806.083	2086454.17	1.3	1.5	Plutonium-239/240	U	2.029	50	0.020	pCi/g
CS37-045	748806.083	2086454.17	1.3	1.5	Uranium-234		4.475	300	2.640	pCi/g
CS37-045	748806.083	2086454.17	1.3	1.5	Uranium-238		4.475	351	1.490	pCi/g
CS37-048	748890.179	2086527.965	0.9	1.1	Americium-241		1.319	76	0.020	pCi/g
CS37-048	748890.179	2086527.965	0.9	1.1	Plutonium-239/240		7.518	50	0.020	pCi/g
CS37-048	748890.179	2086527.965	0.9	1.1	Uranium-234		5.709	300	2.640	pCi/g
CS37-048	748890.179	2086527.965	0.9	1.1	Uranium-235		0.230	8	0.120	pCi/g
CS37-048	748890.179	2086527.965	0.9	1.1	Uranium-238		5.709	351	1.490	pCi/g
CS37-049	748871.228	2086481.686	1.0	1.2	Plutonium-239/240	U	4.597	50	0.020	pCi/g
CS37-049	748871.228	2086481.686	1	1.2	Uranium-234		4.839	300	2.640	pCi/g
CS37-049	748871.228	2086481.686	1	1.2	Uranium-235		0.315	8	0.120	pCi/g
CS37-049	748871.228	2086481.686	1	1.2	Uranium-238		4.839	351	1.490	pCi/g
CS37-051	748936.38	2086509.102	2.2	2.4	Plutonium-239/240	U	0.043	50	0.020	pCi/g
CS37-051	748936.38	2086509.102	2.2	2.4	Uranium-234		2.866	300	2.640	pCi/g
CS37-051	748936.38	2086509.102	2.2	2.4	Uranium-235		0.207	8	0.120	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	AL WRW	Bkg	Units
CS37-051	748936.38	2086509.102	2.2	2.4	Uranium-238		2.866	351	1.490	pCi/g
CS38-022	749127.715	2086517.787	0.5	1	Americium-241		0.544	76	0.020	pCi/g
CS38-022	749127.715	2086517.787	0.5	1	Plutonium-239/240		3.100	50	0.020	pCi/g
CS38-022	749127.715	2086517.787	0.5	1	Uranium-235		0.170	8	0.120	pCi/g
CS38-023	749127.715	2086442.314	0.5	1	Americium-241		1.540	76	0.020	pCi/g
CS38-023	749127.715	2086442.314	0.5	1	Plutonium-239/240		8.778	50	0.020	pCi/g
CS38-023	749127.715	2086442.314	0.5	1	Uranium-235		0.155	8	0.120	pCi/g
CS38-023	749127.715	2086442.314	0.5	1	Uranium-238		1.917	351	1.490	pCi/g
CS38-024	749043.683	2086507.672	1	1.1	Americium-241		0.217	76	0.020	pCi/g
CS38-024	749043.683	2086507.672	1	1.1	Plutonium-239/240		1.230	50	0.020	pCi/g
CS38-024	749043.683	2086507.672	1	1.1	Uranium-234		3.815	300	2.640	pCi/g
CS38-024	749043.683	2086507.672	1	1.1	Uranium-235		0.122	8	0.120	pCi/g
CS38-024	749043.683	2086507.672	1	1.1	Uranium-238		3.815	351	1.490	pCi/g
CS38-025	749000.89	2086400.299	0.8	0.9	Americium-241		1.165	76	0.020	pCi/g
CS38-025	749000.89	2086400.299	0.8	0.9	Plutonium-239/240		6.641	50	0.020	pCi/g
CS38-025	749000.89	2086400.299	0.8	0.9	Uranium-235		0.172	8	0.120	pCi/g
CS38-026	749001.491	2086357.722	1.5	1.6	Americium-241		0.996	76	0.020	pCi/g
CS38-026	749001.491	2086357.722	1.5	1.6	Plutonium-239/240		5.675	50	0.020	pCi/g
CS38-026	749001.491	2086357.722	1.5	1.6	Uranium-235		0.140	8	0.120	pCi/g
CS38-027	749001.491	2086443.314	0.5	0.6	Americium-241		4.577	76	0.020	pCi/g
CS38-027	749001.491	2086443.314	0.5	0.6	Plutonium-239/240		26.089	50	0.020	pCi/g
CS38-027	749001.491	2086443.314	0.5	0.6	Uranium-238		1.686	351	1.490	pCi/g
CS38-028	749000.35	2086484.398	0.5	0.8	Americium-241		3.514	76	0.020	pCi/g
CS38-028	749000.35	2086484.398	0.5	0.8	Plutonium-239/240		20.030	50	0.020	pCi/g
CS38-028	749000.35	2086484.398	0.5	0.8	Uranium-234		3.779	300	2.640	pCi/g
CS38-028	749000.35	2086484.398	0.5	0.8	Uranium-235		0.132	8	0.120	pCi/g
CS38-028	749000.35	2086484.398	0.5	0.8	Uranium-238		3.779	351	1.490	pCi/g
CS38-029	749127.026	2086483.827	0.5	1	Americium-241		2.052	76	0.020	pCi/g
CS38-029	749127.026	2086483.827	0.5	1	Plutonium-239/240		11.696	50	0.020	pCi/g
CS38-030	749127.026	2086400.518	1	1.1	Americium-241		1.487	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS38-030	749127.026	2086400.518	1	1.1	Plutonium-239/240		8.476	50	0.020	pCi/g
CS38-031	749127.026	2086358.292	0.5	0.6	Americium-241		1.188	76	0.020	pCi/g
CS38-031	749127.026	2086358.292	0.5	0.6	Plutonium-239/240		6.772	50	0.020	pCi/g
CS38-031	749127.026	2086358.292	0.5	0.6	Uranium-235		0.260	8	0.120	pCi/g
CS38-031	749127.026	2086358.292	0.5	0.6	Uranium-238		2.364	351	1.490	pCi/g
CS38-032	749084.8	2086358.292	1	1.1	Americium-241		3.296	76	0.020	pCi/g
CS38-032	749084.8	2086358.292	1	1.1	Plutonium-239/240		18.787	50	0.020	pCi/g
CS38-032	749084.8	2086358.292	1	1.1	Uranium-235		0.134	8	0.120	pCi/g
CS38-032	749084.8	2086358.292	1	1.1	Uranium-238		1.779	351	1.490	pCi/g
CS38-033	749085.371	2086399.947	0.8	1	Americium-241		0.821	76	0.020	pCi/g
CS38-033	749085.371	2086399.947	0.8	1	Plutonium-239/240		4.679	50	0.020	pCi/g
CS38-033	749085.371	2086399.947	0.8	1	Uranium-238		1.515	351	1.490	pCi/g
CS38-034	749084.8	2086442.173	0.5	0.7	Americium-241		0.473	76	0.020	pCi/g
CS38-034	749084.8	2086442.173	0.5	0.7	Plutonium-239/240		2.694	50	0.020	pCi/g
CS38-035	749084.8	2086483.827	0.8	1.0	Plutonium-239/240	U	1.011	50	0.020	pCi/g
CS38-036	749001.491	2086357.722	0.5	0.8	Americium-241		2.505	76	0.020	pCi/g
CS38-036	749001.491	2086357.722	0.5	0.8	Uranium-235		0.196	8	0.120	pCi/g
CS38-037	749042.575	2086483.827	0.8	0.9	Americium-241		1.110	76	0.020	pCi/g
CS38-037	749042.575	2086483.827	0.8	0.9	Plutonium-239/240		6.327	50	0.020	pCi/g
CS38-037	749042.575	2086483.827	0.8	0.9	Uranium-234		4.407	300	2.640	pCi/g
CS38-037	749042.575	2086483.827	0.8	0.9	Uranium-238		4.407	351	1.490	pCi/g
CS38-038	749042.575	2086442.743	0.5	0.6	Americium-241		5.621	76	0.020	pCi/g
CS38-038	749042.575	2086442.743	0.5	0.6	Plutonium-239/240		32.040	50	0.020	pCi/g
CS38-038	749042.575	2086442.743	0.5	0.6	Uranium-234		4.829	300	2.640	pCi/g
CS38-038	749042.575	2086442.743	0.5	0.6	Uranium-235		0.230	8	0.120	pCi/g
CS38-038	749042.575	2086442.743	0.5	0.6	Uranium-238		4.829	351	1.490	pCi/g
CS38-039	749043.146	2086400.518	1	1.1	Americium-241		2.042	76	0.020	pCi/g
CS38-039	749043.146	2086400.518	1	1.1	Plutonium-239/240		11.639	50	0.020	pCi/g
CS38-039	749043.146	2086400.518	1	1.1	Uranium-234		5.241	300	2.640	pCi/g
CS38-039	749043.146	2086400.518	1	1.1	Uranium-235		0.154	8	0.120	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS38-039	749043.146	2086400.518	1	1.1	Uranium-238		5.241	351	1.490	pCi/g
CS38-040	749042.575	2086358.292	0.5	0.6	Americium-241		4.772	76	0.020	pCi/g
CS38-040	749042.575	2086358.292	0.5	0.6	Plutonium-239/240		27.200	50	0.020	pCi/g
CS38-040	749042.575	2086358.292	0.5	0.6	Uranium-235		0.184	8	0.120	pCi/g
CS38-062	749001.428	2086536.648	1.2	1.4	Plutonium-239/240	U	1.260	50	0.020	pCi/g
CS38-064	749047.739	2086517.835	0.4	0.6	Plutonium-239/240	U	1.009	50	0.020	pCi/g
CS38-064	749047.739	2086517.835	0.4	0.6	Uranium-238		1.909	351	1.490	pCi/g
CS38-066	749084.716	2086316.665	0.5	0.7	Americium-241		0.287	76	0.020	pCi/g
CS38-066	749084.716	2086316.665	0.5	0.7	Plutonium-239/240		1.637	50	0.020	pCi/g
CS38-066	749084.716	2086316.665	0.5	0.7	Uranium-235		0.156	8	0.120	pCi/g
CS39-017	749168.952	2086523.233	0.8	1	Americium-241		2.245	76	0.020	pCi/g
CS39-017	749168.952	2086523.233	0.8	1	Plutonium-239/240		12.797	50	0.020	pCi/g
CS39-017	749168.952	2086523.233	0.8	1	Uranium-238		1.581	351	1.490	pCi/g
CS39-018	749252.561	2086358.292	1	1.2	Americium-241		0.905	76	0.020	pCi/g
CS39-018	749252.561	2086358.292	1	1.2	Plutonium-239/240		4.110	50	0.020	pCi/g
CS39-019	749253.132	2086400.518	1	1.3	Americium-241		2.756	76	0.020	pCi/g
CS39-019	749253.132	2086400.518	1	1.3	Plutonium-239/240		15.709	50	0.020	pCi/g
CS39-019	749253.132	2086400.518	1	1.3	Uranium-235		0.164	8	0.120	pCi/g
CS39-020	749252.561	2086442.743	0.5	0.8	Americium-241		0.439	76	0.020	pCi/g
CS39-020	749252.561	2086442.743	0.5	0.8	Plutonium-239/240		2.502	50	0.020	pCi/g
CS39-021	749253.132	2086484.398	0.8	1.0	Plutonium-239/240	U	1.265	50	0.020	pCi/g
CS39-021	749253.132	2086484.398	0.8	1	Uranium-235		0.146	8	0.120	pCi/g
CS39-021	749253.132	2086484.398	0.8	1	Uranium-238		1.802	351	1.490	pCi/g
CS39-022	749252.561	2086526.623	0.5	0.7	Plutonium-239/240	U	1.956	50	0.020	pCi/g
CS39-023	749211.477	2086526.053	1	2	Americium-241		0.503	76	0.020	pCi/g
CS39-023	749211.477	2086526.053	1	2	Plutonium-239/240		2.865	50	0.020	pCi/g
CS39-023	749211.477	2086526.053	1	2	Uranium-234		3.331	300	2.640	pCi/g
CS39-023	749211.477	2086526.053	1	2	Uranium-235		0.178	8	0.120	pCi/g
CS39-023	749211.477	2086526.053	1	2	Uranium-238		3.331	351	1.490	pCi/g
CS39-024	749211.477	2086484.398	0.5	0.7	Americium-241		2.428	76	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS39-024	749211.477	2086484.398	0.5	0.7	Plutonium-239/240		13.840	50	0.020	pCi/g
CS39-025	749210.906	2086442.743	0.8	1.8	Americium-241		0.507	76	0.020	pCi/g
CS39-025	749210.906	2086442.743	0.8	1.8	Plutonium-239/240		2.889	50	0.020	pCi/g
CS39-025	749210.906	2086442.743	0.8	1.8	Uranium-235		0.170	8	0.120	pCi/g
CS39-025	749210.906	2086442.743	0.8	1.8	Uranium-238		2.249	351	1.490	pCi/g
CS39-026	749211.477	2086400.518	0.8	1	Americium-241		5.266	76	0.020	pCi/g
CS39-026	749211.477	2086400.518	0.8	1	Plutonium-239/240		30.016	50	0.020	pCi/g
CS39-026	749211.477	2086400.518	0.8	1	Uranium-235		0.168	8	0.120	pCi/g
CS39-026	749211.477	2086400.518	0.8	1	Uranium-238		1.522	351	1.490	pCi/g
CS39-027	749211.477	2086358.863	0.5	0.6	Americium-241		4.674	76	0.020	pCi/g
CS39-027	749211.477	2086358.863	0.5	0.6	Plutonium-239/240		26.642	50	0.020	pCi/g
CS39-027	749211.477	2086358.863	0.5	0.6	Uranium-235		0.136	8	0.120	pCi/g
CS39-028	749168.681	2086358.292	0.5	0.8	Americium-241		1.690	76	0.020	pCi/g
CS39-028	749168.681	2086358.292	0.5	0.8	Plutonium-239/240		9.633	50	0.020	pCi/g
CS39-028	749168.681	2086358.292	0.5	0.8	Uranium-235		0.133	8	0.120	pCi/g
CS39-029	749168.681	2086400.518	1	1.5	Americium-241		0.469	76	0.020	pCi/g
CS39-029	749168.681	2086400.518	1	1.5	Plutonium-239/240		2.672	50	0.020	pCi/g
CS39-030	749169.251	2086442.743	0.8	1	Americium-241		0.327	76	0.020	pCi/g
CS39-030	749169.251	2086442.743	0.8	1	Plutonium-239/240		1.863	50	0.020	pCi/g
CS39-030	749169.251	2086442.743	0.8	1	Uranium-235		0.195	8	0.120	pCi/g
CS39-030	749169.251	2086442.743	0.8	1	Uranium-238		2.314	351	1.490	pCi/g
CS39-031	749168.681	2086483.827	0.5	0.8	Americium-241		3.672	76	0.020	pCi/g
CS39-031	749168.681	2086483.827	0.5	0.8	Plutonium-239/240		20.930	50	0.020	pCi/g
CS39-031	749168.681	2086483.827	0.5	0.8	Uranium-235		0.147	8	0.120	pCi/g
CS39-050	749296.394	2086358.287	0.0	0.3	Plutonium-239/240	U	2.035	50	0.066	pCi/g
CS39-050	749296.394	2086358.287	0	0.3	Uranium-234		3.915	300	2.253	pCi/g
CS39-050	749296.394	2086358.287	0	0.3	Uranium-235		0.164	8	0.094	pCi/g
CS39-050	749296.394	2086358.287	0	0.3	Uranium-238		3.915	351	2.000	pCi/g
CS39-051	749296.363	2086397.864	0.0	0.3	Plutonium-239/240	U	1.157	50	0.066	pCi/g
CS39-051	749296.363	2086397.864	0	0.3	Uranium-234		2.489	300	2.253	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CS39-051	749296.363	2086397.864	0	0.3	Uranium-235		0.171	8	0.094	pCi/g
CS39-051	749296.363	2086397.864	0	0.3	Uranium-238		2.489	351	2.000	pCi/g
CS39-052	749295.561	2086442.75	0.0	0.3	Plutonium-239/240	U	1.015	50	0.066	pCi/g
CS39-052	749295.561	2086442.75	0	0.3	Uranium-234		3.465	300	2.253	pCi/g
CS39-052	749295.561	2086442.75	0	0.3	Uranium-238		3.465	351	2.000	pCi/g
CS39-053	749293.765	2086481.314	0.0	0.3	Plutonium-239/240	U	1.305	50	0.066	pCi/g
CS39-053	749293.765	2086481.314	0	0.3	Uranium-234		3.274	300	2.253	pCi/g
CS39-053	749293.765	2086481.314	0	0.3	Uranium-235		0.217	8	0.094	pCi/g
CS39-053	749293.765	2086481.314	0	0.3	Uranium-238		3.274	351	2.000	pCi/g
CS39-054	749295.458	2086526.208	0	0.3	Plutonium-239/240		0.509	50	0.066	pCi/g
CS39-054	749295.458	2086526.208	0	0.3	Uranium-234		3.278	300	2.253	pCi/g
CS39-054	749295.458	2086526.208	0	0.3	Uranium-235		0.163	8	0.094	pCi/g
CS39-054	749295.458	2086526.208	0	0.3	Uranium-238		3.278	351	2.000	pCi/g
CS40-000	749363.848	2086348.966	0	0.5	Americium-241		6.882	76	0.023	pCi/g
CS40-000	749363.848	2086348.966	0	0.5	Plutonium-239/240		39.227	50	0.066	pCi/g
CS40-000	749363.848	2086348.966	0	0.5	Uranium-234		5.171	300	2.253	pCi/g
CS40-000	749363.848	2086348.966	0	0.5	Uranium-235		0.241	8	0.094	pCi/g
CS40-000	749363.848	2086348.966	0	0.5	Uranium-238		5.171	351	2.000	pCi/g
CS40-001	749364.874	2086391.052	0	0.5	Americium-241		5.012	76	0.023	pCi/g
CS40-001	749364.874	2086391.052	0	0.5	Plutonium-239/240		28.568	50	0.066	pCi/g
CS40-002	749364.874	2086433.139	0	0.5	Americium-241		3.120	76	0.023	pCi/g
CS40-002	749364.874	2086433.139	0	0.5	Plutonium-239/240		13.300	50	0.066	pCi/g
CS40-002	749364.874	2086433.139	0	0.5	Uranium-235		0.145	8	0.094	pCi/g
CS40-005	749447.607	2086348.382	0	0.3	Americium-241		1.897	76	0.023	pCi/g
CS40-005	749447.607	2086348.382	0	0.3	Plutonium-239/240		10.813	50	0.066	pCi/g
CS40-005	749447.607	2086348.382	0	0.3	Uranium-234		5.210	300	2.253	pCi/g
CS40-005	749447.607	2086348.382	0	0.3	Uranium-235		0.409	8	0.094	pCi/g
CS40-005	749447.607	2086348.382	0	0.3	Uranium-238		5.210	351	2.000	pCi/g
CS40-006	749405.607	2086390.382	0	0.3	Americium-241		5.672	76	0.023	pCi/g
CS40-006	749405.607	2086390.382	0	0.3	Plutonium-239/240		32.330	50	0.066	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	AL WRW	Bkg	Units
CS40-006	749405.607	2086390.382	0	0.3	Uranium-234		4.453	300	2.253	pCi/g
CS40-006	749405.607	2086390.382	0	0.3	Uranium-235		0.274	8	0.094	pCi/g
CS40-006	749405.607	2086390.382	0	0.3	Uranium-238		4.453	351	2.000	pCi/g
CS40-007	749407.388	2086351.096	0.3	0.5	Americium-241		4.311	76	0.023	pCi/g
CS40-007	749407.388	2086351.096	0.3	0.5	Plutonium-239/240		24.573	50	0.066	pCi/g
CS40-007	749407.388	2086351.096	0.3	0.5	Uranium-234		2.558	300	2.253	pCi/g
CS40-007	749407.388	2086351.096	0.3	0.5	Uranium-235		0.173	8	0.094	pCi/g
CS40-007	749407.388	2086351.096	0.3	0.5	Uranium-238		2.558	351	2.000	pCi/g
CT34-000	748324.119	2086595.877	0.1	0.3	Americium-241		6.323	76	0.023	pCi/g
CT34-000	748324.119	2086595.877	0.1	0.3	Plutonium-239/240		36.041	50	0.066	pCi/g
CT34-000	748324.119	2086595.877	0.1	0.3	Uranium-235		0.286	8	0.094	pCi/g
CT35-010	748380.482	2086734.839	0.4	0.6	Americium-241		4.045	76	0.020	pCi/g
CT35-010	748380.482	2086734.839	0.4	0.6	Plutonium-239/240		23.057	50	0.020	pCi/g
CT35-010	748380.482	2086734.839	0.4	0.6	Uranium-234		4.158	300	2.640	pCi/g
CT35-010	748380.482	2086734.839	0.4	0.6	Uranium-235		0.392	8	0.120	pCi/g
CT35-010	748380.482	2086734.839	0.4	0.6	Uranium-238		4.158	351	1.490	pCi/g
CT35-011	748361.679	2086688.462	0.4	0.6	Americium-241		0.847	76	0.020	pCi/g
CT35-011	748361.679	2086688.462	0.4	0.6	Plutonium-239/240		4.829	50	0.020	pCi/g
CT35-011	748361.679	2086688.462	0.4	0.6	Uranium-234		4.843	300	2.640	pCi/g
CT35-011	748361.679	2086688.462	0.4	0.6	Uranium-235		0.220	8	0.120	pCi/g
CT35-011	748361.679	2086688.462	0.4	0.6	Uranium-238		4.843	351	1.490	pCi/g
CT35-012	748426.825	2086716.062	0.7	0.9	Americium-241		0.417	76	0.020	pCi/g
CT35-012	748426.825	2086716.062	0.7	0.9	Plutonium-239/240		2.376	50	0.020	pCi/g
CT35-012	748426.825	2086716.062	0.7	0.9	Uranium-235		0.240	8	0.120	pCi/g
CT35-012	748426.825	2086716.062	0.7	0.9	Uranium-238		1.657	351	1.490	pCi/g
CT35-013	748408.105	2086669.743	0.4	0.6	Americium-241		2.258	76	0.020	pCi/g
CT35-013	748408.105	2086669.743	0.4	0.6	Plutonium-239/240		12.871	50	0.020	pCi/g
CT35-013	748408.105	2086669.743	0.4	0.6	Uranium-238		1.570	351	1.490	pCi/g
CT35-014	748389.129	2086623.371	0.4	0.6	Americium-241		2.110	76	0.020	pCi/g
CT35-014	748389.129	2086623.371	0.4	0.6	Plutonium-239/240		13.100	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT35-014	748389.129	2086623.371	0.4	0.6	Uranium-235		0.138	8	0.120	pCi/g
CT35-015	748370.347	2086576.954	0.3	0.5	Americium-241		3.329	76	0.023	pCi/g
CT35-015	748370.347	2086576.954	0.3	0.5	Plutonium-239/240		18.975	50	0.066	pCi/g
CT35-015	748370.347	2086576.954	0.3	0.5	Uranium-235		0.158	8	0.094	pCi/g
CT35-016	748473.207	2086697.233	0.5	0.7	Americium-241		2.317	76	0.020	pCi/g
CT35-016	748473.207	2086697.233	0.5	0.7	Plutonium-239/240		13.207	50	0.020	pCi/g
CT35-017	748454.311	2086650.99	0.7	0.9	Americium-241		1.070	76	0.020	pCi/g
CT35-017	748454.311	2086650.99	0.7	0.9	Plutonium-239/240		6.099	50	0.020	pCi/g
CT35-017	748454.311	2086650.99	0.7	0.9	Uranium-235		0.159	8	0.120	pCi/g
CT35-018	748435.466	2086604.547	0.3	0.5	Americium-241		3.650	76	0.023	pCi/g
CT35-018	748435.466	2086604.547	0.3	0.5	Plutonium-239/240		20.805	50	0.066	pCi/g
CT35-018	748435.466	2086604.547	0.3	0.5	Uranium-235		0.170	8	0.094	pCi/g
CT35-019	748416.715	2086558.193	0.3	0.5	Americium-241		2.132	76	0.023	pCi/g
CT35-019	748416.715	2086558.193	0.3	0.5	Plutonium-239/240		12.152	50	0.066	pCi/g
CT35-020	748538.14	2086724.654	0.3	0.5	Americium-241		1.348	76	0.023	pCi/g
CT35-020	748538.14	2086724.654	0.3	0.5	Plutonium-239/240		7.684	50	0.066	pCi/g
CT35-020	748538.14	2086724.654	0.3	0.5	Uranium-235		0.146	8	0.094	pCi/g
CT35-021	748519.518	2086678.451	0.2	0.4	Americium-241		3.162	76	0.023	pCi/g
CT35-021	748519.518	2086678.451	0.2	0.4	Plutonium-239/240		18.023	50	0.066	pCi/g
CT35-021	748519.518	2086678.451	0.2	0.4	Uranium-234		6.487	300	2.253	pCi/g
CT35-021	748519.518	2086678.451	0.2	0.4	Uranium-235		0.445	8	0.094	pCi/g
CT35-021	748519.518	2086678.451	0.2	0.4	Uranium-238		6.487	351	2.000	pCi/g
CT35-022	748500.687	2086632.046	0.3	0.5	Americium-241		0.914	76	0.023	pCi/g
CT35-022	748500.687	2086632.046	0.3	0.5	Plutonium-239/240		5.212	50	0.066	pCi/g
CT35-022	748500.687	2086632.046	0.3	0.5	Uranium-235		0.156	8	0.094	pCi/g
CT35-023	748481.786	2086585.832	0.4	0.6	Americium-241		3.850	76	0.020	pCi/g
CT35-023	748481.786	2086585.832	0.4	0.6	Plutonium-239/240		21.945	50	0.020	pCi/g
CT35-023	748481.786	2086585.832	0.4	0.6	Uranium-238		1.555	351	1.490	pCi/g
CT35-024	748463.052	2086539.466	0.6	0.8	Americium-241		2.400	76	0.020	pCi/g
CT35-024	748463.052	2086539.466	0.6	0.8	Plutonium-239/240		13.680	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT35-024	748463.052	2086539.466	0.6	0.8	Uranium-235		0.161	8	0.120	pCi/g
CT35-025	748547.085	2086613.3	0.4	0.6	Americium-241		2.485	76	0.020	pCi/g
CT35-025	748547.085	2086613.3	0.4	0.6	Plutonium-239/240		14.165	50	0.020	pCi/g
CT35-026	748528.171	2086567.006	0.5	0.7	Americium-241		3.551	76	0.020	pCi/g
CT35-026	748528.171	2086567.006	0.5	0.7	Plutonium-239/240		20.241	50	0.020	pCi/g
CT35-026	748528.171	2086567.006	0.5	0.7	Uranium-234		3.273	300	2.640	pCi/g
CT35-026	748528.171	2086567.006	0.5	0.7	Uranium-235		0.213	8	0.120	pCi/g
CT35-026	748528.171	2086567.006	0.5	0.7	Uranium-238		3.273	351	1.490	pCi/g
CT36-001	748584.654	2086705.969	0.3	0.5	Americium-241		3.060	76	0.023	pCi/g
CT36-001	748584.654	2086705.969	0.3	0.5	Plutonium-239/240		17.442	50	0.066	pCi/g
CT36-002	748565.89	2086659.608	0.2	0.4	Americium-241		7.503	76	0.023	pCi/g
CT36-002	748565.89	2086659.608	0.2	0.4	Plutonium-239/240		42.767	50	0.066	pCi/g
CT36-002	748565.89	2086659.608	0.2	0.4	Uranium-235		0.164	8	0.094	pCi/g
CT36-003	748649.77	2086733.544	0.4	0.6	Americium-241		2.210	76	0.020	pCi/g
CT36-003	748649.77	2086733.544	0.4	0.6	Plutonium-239/240		11.100	50	0.020	pCi/g
CT36-003	748649.77	2086733.544	0.4	0.6	Uranium-235		0.253	8	0.120	pCi/g
CT36-003	748649.77	2086733.544	0.4	0.6	Uranium-238		2.082	351	1.490	pCi/g
CT36-004	748630.824	2086686.979	0.5	0.7	Americium-241		0.524	76	0.020	pCi/g
CT36-004	748630.824	2086686.979	0.5	0.7	Plutonium-239/240		2.988	50	0.020	pCi/g
CT36-004	748630.824	2086686.979	0.5	0.7	Uranium-235		0.177	8	0.120	pCi/g
CT36-004	748630.824	2086686.979	0.5	0.7	Uranium-238		1.555	351	1.490	pCi/g
CT36-005	748612.154	2086640.799	0.4	0.6	Americium-241		0.355	76	0.020	pCi/g
CT36-005	748612.154	2086640.799	0.4	0.6	Plutonium-239/240		1.150	50	0.020	pCi/g
CT36-006	748593.251	2086594.44	0.7	0.9	Americium-241		2.703	76	0.020	pCi/g
CT36-006	748593.251	2086594.44	0.7	0.9	Plutonium-239/240		15.407	50	0.020	pCi/g
CT36-006	748593.251	2086594.44	0.7	0.9	Uranium-238		1.587	351	1.490	pCi/g
CT36-007	748574.411	2086548.17	0.4	0.6	Americium-241		4.405	76	0.020	pCi/g
CT36-007	748574.411	2086548.17	0.4	0.6	Plutonium-239/240		25.109	50	0.020	pCi/g
CT36-007	748574.411	2086548.17	0.4	0.6	Uranium-234		2.668	300	2.640	pCi/g
CT36-007	748574.411	2086548.17	0.4	0.6	Uranium-238		2.668	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT36-008	748696.026	2086714.708	1.5	1.7	Plutonium-239/240	U	0.435			
CT36-008	748696.026	2086714.708	1.5	1.7	Uranium-235		0.125	8	0.120	pCi/g
CT36-009	748677.161	2086668.329	0.3	0.5	Americium-241		3.276	76	0.023	pCi/g
CT36-009	748677.161	2086668.329	0.3	0.5	Plutonium-239/240		18.673	50	0.066	pCi/g
CT36-009	748677.161	2086668.329	0.3	0.5	Uranium-238		2.171	351	2.000	pCi/g
CT36-010	748658.52	2086622.04	0.6	0.8	Americium-241		9.553	76	0.020	pCi/g
CT36-010	748658.52	2086622.04	0.6	0.8	Uranium-235		0.239	8	0.120	pCi/g
CT36-010	748658.52	2086622.04	0.6	0.8	Uranium-238		1.901	351	1.490	pCi/g
CT36-010	748658.52	2086622.04	0.8	1	Americium-241		2.249	76	0.020	pCi/g
CT36-010	748658.52	2086622.04	0.8	1	Plutonium-239/240		12.819	50	0.020	pCi/g
CT36-010	748658.52	2086622.04	0.8	1	Uranium-234		3.624	300	2.640	pCi/g
CT36-010	748658.52	2086622.04	0.8	1	Uranium-238		3.624	351	1.490	pCi/g
CT36-011	748639.572	2086575.654	0.2	0.4	Americium-241		8.502	76	0.023	pCi/g
CT36-011	748639.572	2086575.654	0.2	0.4	Plutonium-239/240		48.461	50	0.066	pCi/g
CT36-011	748639.572	2086575.654	0.2	0.4	Uranium-235		0.219	8	0.094	pCi/g
CT36-012	748742.383	2086695.901	0.6	0.8	Americium-241		0.360	76	0.020	pCi/g
CT36-012	748742.383	2086695.901	0.6	0.8	Plutonium-239/240		2.053	50	0.020	pCi/g
CT36-012	748742.383	2086695.901	0.6	0.8	Uranium-235		0.161	8	0.120	pCi/g
CT36-012	748742.383	2086695.901	0.6	0.8	Uranium-238		1.967	351	1.490	pCi/g
CT36-013	748723.546	2086649.459	0.6	0.8	Americium-241		0.806	76	0.020	pCi/g
CT36-013	748723.546	2086649.459	0.6	0.8	Plutonium-239/240		6.850	50	0.020	pCi/g
CT36-013	748723.546	2086649.459	0.6	0.8	Uranium-234		3.689	300	2.640	pCi/g
CT36-013	748723.546	2086649.459	0.6	0.8	Uranium-238		3.689	351	1.490	pCi/g
CT36-014	748704.775	2086603.122	0.8	1	Americium-241		3.296	76	0.020	pCi/g
CT36-014	748704.775	2086603.122	0.8	1	Plutonium-239/240		18.787	50	0.020	pCi/g
CT36-014	748704.775	2086603.122	0.8	1	Uranium-235		0.174	8	0.120	pCi/g
CT36-014	748704.775	2086603.122	0.8	1	Uranium-238		2.353	351	1.490	pCi/g
CT36-015	748685.912	2086556.827	0.7	0.9	Americium-241		4.318	76	0.020	pCi/g
CT36-015	748685.912	2086556.827	0.7	0.9	Plutonium-239/240		24.613	50	0.020	pCi/g
CT36-015	748685.912	2086556.827	0.7	0.9	Uranium-235		0.143	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	AL WRW	Bkg	Units
CT36-016	748751.138	2086584.309	0.3	0.5	Uranium-238		2.117	351	2.000	pCi/g
CT36-016	748751.138	2086584.309	0.3	0.5	Uranium-235		0.231	8	0.094	pCi/g
CT36-016	748751.138	2086584.309	0.3	0.5	Plutonium-239/240		16.952	50	0.066	pCi/g
CT36-017	748732.172	2086538.082	0.9	1.1	Plutonium-239/240	U	2.425	50	0.020	pCi/g
CT36-017	748732.172	2086538.082	0.9	1.1	Uranium-238		2.151	351	1.490	pCi/g
CT37-001	748807.532	2086723.338	0.4	0.6	Uranium-238		1.971	351	1.490	pCi/g
CT37-002	748788.742	2086677.109	0.5	0.7	Plutonium-239/240	U	1.668	50	0.020	pCi/g
CT37-002	748788.742	2086677.109	0.5	0.7	Uranium-235		0.305	8	0.120	pCi/g
CT37-002	748788.742	2086677.109	0.5	0.7	Uranium-238		2.211	351	1.490	pCi/g
CT37-003	748769.902	2086630.785	0.7	0.9	Amertcium-241		4.341	76	0.020	pCi/g
CT37-003	748769.902	2086630.785	0.7	0.9	Plutonium-239/240		24.744	50	0.020	pCi/g
CT37-003	748769.902	2086630.785	0.7	0.9	Uranium-235		0.286	8	0.120	pCi/g
CT37-003	748769.902	2086630.785	0.7	0.9	Uranium-238		1.718	351	1.490	pCi/g
CT37-004	748853.986	2086704.585	0.6	0.8	Amertcium-241		1.155	76	0.020	pCi/g
CT37-004	748853.986	2086704.585	0.6	0.8	Plutonium-239/240		6.584	50	0.020	pCi/g
CT37-004	748853.986	2086704.585	0.6	0.8	Uranium-234		4.606	300	2.640	pCi/g
CT37-004	748853.986	2086704.585	0.6	0.8	Uranium-235		0.310	8	0.120	pCi/g
CT37-004	748853.986	2086704.585	0.6	0.8	Uranium-238		4.606	351	1.490	pCi/g
CT37-005	748835.026	2086658.201	0.1	0.3	Amertcium-241		4.627	76	0.023	pCi/g
CT37-005	748835.026	2086658.201	0.1	0.3	Plutonium-239/240		26.374	50	0.066	pCi/g
CT37-005	748835.026	2086658.201	0.1	0.3	Uranium-235		0.212	8	0.094	pCi/g
CT37-006	748816.193	2086611.826	1.4	1.6	Plutonium-239/240	U	1.873	50	0.020	pCi/g
CT37-006	748816.193	2086611.826	1.4	1.6	Uranium-235		0.135	8	0.120	pCi/g
CT37-007	748797.463	2086565.618	0.5	0.7	Amertcium-241		2.427	76	0.020	pCi/g
CT37-007	748797.463	2086565.618	0.5	0.7	Plutonium-239/240		13.834	50	0.020	pCi/g
CT37-007	748797.463	2086565.618	0.5	0.7	Uranium-234		4.119	300	2.640	pCi/g
CT37-007	748797.463	2086565.618	0.5	0.7	Uranium-235		0.352	8	0.120	pCi/g
CT37-007	748797.463	2086565.618	0.5	0.7	Uranium-238		4.119	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT37-008	748918.987	2086732.069	1.2	1.4	Plutonium-239/240	U	1.797	50	0.020	pCi/g
CT37-009	748900.206	2086685.733	0.9	1.1	Americium-241		2.263	76	0.020	pCi/g
CT37-009	748900.206	2086685.733	0.9	1.1	Plutonium-239/240		12.899	50	0.020	pCi/g
CT37-009	748900.206	2086685.733	0.9	1.1	Uranium-234		4.552	300	2.640	pCi/g
CT37-009	748900.206	2086685.733	0.9	1.1	Uranium-235		0.266	8	0.120	pCi/g
CT37-009	748900.206	2086685.733	0.9	1.1	Uranium-238		4.552	351	1.490	pCi/g
CT37-010	748881.318	2086639.371	0.8	1	Americium-241		0.911	76	0.020	pCi/g
CT37-010	748881.318	2086639.371	0.8	1	Plutonium-239/240		5.194	50	0.020	pCi/g
CT37-010	748881.318	2086639.371	0.8	1	Uranium-235		0.182	8	0.120	pCi/g
CT37-011	748862.508	2086593	0.6	0.8	Americium-241		1.987	76	0.020	pCi/g
CT37-011	748862.508	2086593	0.6	0.8	Plutonium-239/240		11.326	50	0.020	pCi/g
CT37-012	748843.709	2086546.783	0.5	0.7	Americium-241		0.448	76	0.020	pCi/g
CT37-012	748843.709	2086546.783	0.5	0.7	Plutonium-239/240		2.556	50	0.020	pCi/g
CT37-012	748843.709	2086546.783	0.5	0.7	Uranium-235		0.258	8	0.120	pCi/g
CT37-013	748946.517	2086666.883	1.1	1.3	Plutonium-239/240	U	1.112	50	0.020	pCi/g
CT37-013	748946.517	2086666.883	1.1	1.3	Uranium-235		0.253	8	0.120	pCi/g
CT37-013	748946.517	2086666.883	1.1	1.3	Uranium-238		1.795	351	1.490	pCi/g
CT37-014	748927.726	2086620.578	1	1.2	Americium-241		0.900	76	0.020	pCi/g
CT37-014	748927.726	2086620.578	1	1.2	Plutonium-239/240		5.128	50	0.020	pCi/g
CT37-014	748927.726	2086620.578	1	1.2	Uranium-235		0.124	8	0.120	pCi/g
CT37-015	748908.932	2086574.266	1.7	1.9	Americium-241		0.323	76	0.020	pCi/g
CT37-015	748908.932	2086574.266	1.7	1.9	Plutonium-239/240		1.840	50	0.020	pCi/g
CT37-016	748955.235	2086555.371	1	1.2	Americium-241		2.888	76	0.020	pCi/g
CT37-016	748955.235	2086555.371	1	1.2	Plutonium-239/240		16.462	50	0.020	pCi/g
CT37-016	748955.235	2086555.371	1	1.2	Uranium-234		4.158	300	2.640	pCi/g
CT37-016	748955.235	2086555.371	1	1.2	Uranium-235		0.216	8	0.120	pCi/g
CT37-016	748955.235	2086555.371	1	1.2	Uranium-238		4.158	351	1.490	pCi/g
CT38-022	748965.219	2086713.104	1.1	1.2	Americium-241		1.039	76	0.020	pCi/g
CT38-022	748965.219	2086713.104	1.1	1.2	Plutonium-239/240		5.922	50	0.020	pCi/g
CT38-022	748965.219	2086713.104	1.1	1.2	Uranium-235		0.150	8	0.120	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT38-023	749011.537	2086694.273	0.9	1.1	Americium-241		1.519	76	0.020	pCi/g
CT38-023	749011.537	2086694.273	0.9	1.1	Plutonium-239/240		8.658	50	0.020	pCi/g
CT38-023	749011.537	2086694.273	0.9	1.1	Uranium-235		0.170	8	0.120	pCi/g
CT38-024	748992.873	2086648.114	1.6	1.8	Americium-241		1.243	76	0.020	pCi/g
CT38-024	748992.873	2086648.114	1.6	1.8	Plutonium-239/240		7.085	50	0.020	pCi/g
CT38-025	748973.925	2086601.728	1.1	1.3	Americium-241		1.596	76	0.020	pCi/g
CT38-025	748973.925	2086601.728	1.1	1.3	Plutonium-239/240		9.097	50	0.020	pCi/g
CT38-025	748973.925	2086601.728	1.1	1.3	Uranium-238		1.551	351	1.490	pCi/g
CT38-026	749076.857	2086721.943	1.2	1.4	Plutonium-239/240	U	1.817	50	0.020	pCi/g
CT38-026	749076.857	2086721.943	1.2	1.4	Uranium-235		0.121	8	0.120	pCi/g
CT38-027	749058.02	2086675.571	0.5	0.7	Americium-241		0.926	76	0.020	pCi/g
CT38-027	749058.02	2086675.571	0.5	0.7	Plutonium-239/240		5.278	50	0.020	pCi/g
CT38-028	749039.223	2086629.196	0.6	0.8	Americium-241		7.994	76	0.020	pCi/g
CT38-028	749039.223	2086629.196	0.6	0.8	Plutonium-239/240		45.566	50	0.020	pCi/g
CT38-029	749020.412	2086583.023	0.6	0.8	Americium-241		6.398	76	0.020	pCi/g
CT38-029	749020.412	2086583.023	0.6	0.8	Plutonium-239/240		36.469	50	0.020	pCi/g
CT38-029	749020.412	2086583.023	0.6	0.8	Uranium-235		0.149	8	0.120	pCi/g
CT38-030	749123.21	2086703.195	0.7	0.9	Americium-241		4.624	76	0.020	pCi/g
CT38-030	749123.21	2086703.195	0.7	0.9	Plutonium-239/240		26.357	50	0.020	pCi/g
CT38-031	749104.348	2086656.755	0.1	0.3	Americium-241		3.120	76	0.023	pCi/g
CT38-031	749104.348	2086656.755	0.1	0.3	Plutonium-239/240		19.400	50	0.066	pCi/g
CT38-031	749104.348	2086656.755	0.1	0.3	Uranium-235		0.146	8	0.094	pCi/g
CT38-032	749085.447	2086610.482	0.6	0.8	Americium-241		3.387	76	0.020	pCi/g
CT38-032	749085.447	2086610.482	0.6	0.8	Plutonium-239/240		19.306	50	0.020	pCi/g
CT38-032	749085.447	2086610.482	0.6	0.8	Uranium-235		0.147	8	0.120	pCi/g
CT38-032	749085.447	2086610.482	0.6	0.8	Uranium-238		1.548	351	1.490	pCi/g
CT38-033	749066.816	2086564.064	0.6	0.8	Americium-241		4.729	76	0.020	pCi/g
CT38-033	749066.816	2086564.064	0.6	0.8	Plutonium-239/240		26.955	50	0.020	pCi/g
CT38-033	749066.816	2086564.064	0.6	0.8	Uranium-234		3.210	300	2.640	pCi/g
CT38-033	749066.816	2086564.064	0.6	0.8	Uranium-238		3.210	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT38-034	749150.643	2086637.94	0.8	1	Americium-241		6.927	76	0.020	pCi/g
CT38-034	749150.643	2086637.94	0.8	1	Plutonium-239/240		39.484	50	0.020	pCi/g
CT38-035	749131.76	2086591.636	1	1.2	Americium-241		1.080	76	0.020	pCi/g
CT38-035	749131.76	2086591.636	1	1.2	Plutonium-239/240		4.990	50	0.020	pCi/g
CT38-036	749113	2086545.31	0.7	0.9	Americium-241		0.565	76	0.020	pCi/g
CT38-036	749113	2086545.31	0.7	0.9	Plutonium-239/240		3.219	50	0.020	pCi/g
CT38-036	749113	2086545.31	0.7	0.9	Uranium-234		5.365	300	2.640	pCi/g
CT38-036	749113	2086545.31	0.7	0.9	Uranium-235		0.258	8	0.120	pCi/g
CT38-036	749113	2086545.31	0.7	0.9	Uranium-238		5.365	351	1.490	pCi/g
CT39-010	749188.26	2086730.608	0.9	1.1	Americium-241		5.121	76	0.020	pCi/g
CT39-010	749188.26	2086730.608	0.9	1.1	Plutonium-239/240		29.190	50	0.020	pCi/g
CT39-011	749169.432	2086684.46	0.6	0.8	Americium-241		3.259	76	0.020	pCi/g
CT39-011	749169.432	2086684.46	0.6	0.8	Plutonium-239/240		18.576	50	0.020	pCi/g
CT39-011	749169.432	2086684.46	0.6	0.8	Uranium-235		0.140	8	0.120	pCi/g
CT39-012	749234.617	2086711.762	0.5	0.7	Americium-241		0.810	76	0.020	pCi/g
CT39-012	749234.617	2086711.762	0.5	0.7	Plutonium-239/240		4.614	50	0.020	pCi/g
CT39-012	749234.617	2086711.762	0.5	0.7	Uranium-238		1.844	351	1.490	pCi/g
CT39-013	749215.857	2086665.542	0.4	0.6	Americium-241		7.967	76	0.020	pCi/g
CT39-013	749215.857	2086665.542	0.4	0.6	Plutonium-239/240		45.412	50	0.020	pCi/g
CT39-013	749215.857	2086665.542	0.4	0.6	Uranium-238		1.725	351	1.490	pCi/g
CT39-014	749197.017	2086619.153	0.7	0.9	Americium-241		1.393	76	0.020	pCi/g
CT39-014	749197.017	2086619.153	0.7	0.9	Plutonium-239/240		7.940	50	0.020	pCi/g
CT39-014	749197.017	2086619.153	0.7	0.9	Uranium-235		0.180	8	0.120	pCi/g
CT39-014	749197.017	2086619.153	0.7	0.9	Uranium-238		2.165	351	1.490	pCi/g
CT39-015	749178.155	2086572.789	0.4	0.6	Americium-241		3.456	76	0.020	pCi/g
CT39-015	749178.155	2086572.789	0.4	0.6	Plutonium-239/240		19.699	50	0.020	pCi/g
CT39-015	749178.155	2086572.789	0.4	0.6	Uranium-234		4.069	300	2.640	pCi/g
CT39-015	749178.155	2086572.789	0.4	0.6	Uranium-235		0.209	8	0.120	pCi/g
CT39-015	749178.155	2086572.789	0.4	0.6	Uranium-238		4.069	351	1.490	pCi/g
CT39-016	749280.89	2086692.946	0.4	0.6	Americium-241		0.332	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CT39-016	749280.89	2086692.946	0.4	0.6	Plutonium-239/240		1.980	50	0.020	pCi/g
CT39-016	749280.89	2086692.946	0.4	0.6	Uranium-235		0.182	8	0.120	pCi/g
CT39-016	749280.89	2086692.946	0.4	0.6	Uranium-238		1.696	351	1.490	pCi/g
CT39-017	749262.038	2086646.758	0.5	0.7	Plutonium-239/240	U	2.151	50	0.020	pCi/g
CT39-017	749262.038	2086646.758	0.5	0.7	Uranium-235		0.166	8	0.120	pCi/g
CT39-018	749243.265	2086600.277	0.5	0.7	Americium-241		0.502	76	0.020	pCi/g
CT39-018	749243.265	2086600.277	0.5	0.7	Plutonium-239/240		2.860	50	0.020	pCi/g
CT39-018	749243.265	2086600.277	0.5	0.7	Uranium-235		0.234	8	0.120	pCi/g
CT39-019	749224.349	2086553.972	0.3	0.5	Plutonium-239/240	U	2.993	50	0.066	pCi/g
CT39-019	749224.349	2086553.972	0.3	0.5	Uranium-234		4.329	300	2.253	pCi/g
CT39-019	749224.349	2086553.972	0.3	0.5	Uranium-235		0.233	8	0.094	pCi/g
CT39-019	749224.349	2086553.972	0.3	0.5	Uranium-238		4.329	351	2.000	pCi/g
CT40-006	749392.416	2086701.632	0.4	0.6	Plutonium-239/240	U	1.985	50	0.020	pCi/g
CT40-006	749392.416	2086701.632	0.4	0.6	Uranium-235		0.214	8	0.120	pCi/g
CT40-006	749392.416	2086701.632	0.4	0.6	Uranium-238		2.235	351	1.490	pCi/g
CT40-007	749457.491	2086729.33	0.7	0.9	Americium-241		3.801	76	0.020	pCi/g
CT40-007	749457.491	2086729.33	0.7	0.9	Plutonium-239/240		21.666	50	0.020	pCi/g
CT40-007	749457.491	2086729.33	0.7	0.9	Uranium-235		0.128	8	0.120	pCi/g
CT40-007	749457.491	2086729.33	0.7	0.9	Uranium-238		1.895	351	1.490	pCi/g
CT40-008	749438.642	2086682.872	1	1.2	Americium-241		6.234	76	0.020	pCi/g
CT40-008	749438.642	2086682.872	1	1.2	Plutonium-239/240		35.534	50	0.020	pCi/g
CT40-008	749438.642	2086682.872	1	1.2	Uranium-235		0.125	8	0.120	pCi/g
CT40-008	749438.642	2086682.872	1	1.2	Uranium-238		1.705	351	1.490	pCi/g
CU34-000	748353.026	2086800.014	0.3	0.5	Americium-241		1.301	76	0.023	pCi/g
CU34-000	748353.026	2086800.014	0.3	0.5	Plutonium-239/240		7.416	50	0.066	pCi/g
CU34-000	748353.026	2086800.014	0.3	0.5	Uranium-234		3.508	300	2.253	pCi/g
CU34-000	748353.026	2086800.014	0.3	0.5	Uranium-238		3.508	351	2.000	pCi/g
CU35-013	748390.563	2086892.71	0.6	0.8	Americium-241		0.778	76	0.020	pCi/g
CU35-013	748390.563	2086892.71	0.6	0.8	Plutonium-239/240		4.434	50	0.020	pCi/g
CU35-013	748390.563	2086892.71	0.6	0.8	Uranium-235		0.163	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU35-014	748455.683	2086920.218	0.3	0.5	Americium-241		3.388	76	0.023	pCi/g
CU35-014	748455.683	2086920.218	0.3	0.5	Plutonium-239/240		19.312	50	0.066	pCi/g
CU35-014	748455.683	2086920.218	0.3	0.5	Uranium-235		0.164	8	0.094	pCi/g
CU35-015	748436.915	2086873.793	0.4	0.6	Americium-241		0.980	76	0.020	pCi/g
CU35-015	748436.915	2086873.793	0.4	0.6	Plutonium-239/240		5.585	50	0.020	pCi/g
CU35-015	748436.915	2086873.793	0.4	0.6	Uranium-235		0.220	8	0.120	pCi/g
CU35-015	748436.915	2086873.793	0.4	0.6	Uranium-238		2.024	351	1.490	pCi/g
CU35-016	748418.121	2086827.688	0.5	0.7	Plutonium-239/240	U	1.858	50	0.020	pCi/g
CU35-016	748418.121	2086827.688	0.5	0.7	Uranium-234		4.459	300	2.640	pCi/g
CU35-016	748418.121	2086827.688	0.5	0.7	Uranium-235		0.238	8	0.120	pCi/g
CU35-016	748418.121	2086827.688	0.5	0.7	Uranium-238		4.459	351	1.490	pCi/g
CU35-017	748399.337	2086781.204	0.6	0.8	Americium-241		0.296	76	0.020	pCi/g
CU35-017	748399.337	2086781.204	0.6	0.8	Plutonium-239/240		0.781	50	0.020	pCi/g
CU35-017	748399.337	2086781.204	0.6	0.8	Uranium-235		0.124	8	0.120	pCi/g
CU35-018	748483.293	2086854.929	0.4	0.6	Americium-241		3.079	76	0.020	pCi/g
CU35-018	748483.293	2086854.929	0.4	0.6	Plutonium-239/240		17.550	50	0.020	pCi/g
CU35-018	748483.293	2086854.929	0.4	0.6	Uranium-238		1.796	351	1.490	pCi/g
CU35-019	748464.449	2086808.688	0.5	0.7	Americium-241		0.830	76	0.020	pCi/g
CU35-019	748464.449	2086808.688	0.5	0.7	Plutonium-239/240		4.729	50	0.020	pCi/g
CU35-019	748464.449	2086808.688	0.5	0.7	Uranium-235		0.308	8	0.120	pCi/g
CU35-019	748464.449	2086808.688	0.5	0.7	Uranium-238		2.601	351	1.490	pCi/g
CU35-020	748445.678	2086762.287	0.5	0.7	Americium-241		6.945	76	0.020	pCi/g
CU35-020	748445.678	2086762.287	0.5	0.7	Plutonium-239/240		39.587	50	0.020	pCi/g
CU35-020	748445.678	2086762.287	0.5	0.7	Uranium-238		1.899	351	1.490	pCi/g
CU35-021	748548.377	2086882.53	1.6	1.8	Plutonium-239/240	U	3.831	50	0.020	pCi/g
CU35-021	748548.377	2086882.53	1.6	1.8	Uranium-234		3.091	300	2.640	pCi/g
CU35-021	748548.377	2086882.53	1.6	1.8	Uranium-235		0.225	8	0.120	pCi/g
CU35-021	748548.377	2086882.53	1.6	1.8	Uranium-238		3.091	351	1.490	pCi/g
CU35-022	748529.604	2086836.217	0.6	0.8	Americium-241		0.637	76	0.020	pCi/g
CU35-022	748529.604	2086836.217	0.6	0.8	Plutonium-239/240		2.970	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU35-022	748529.604	2086836.217	0.6	0.8	Uranium-238		1.906	351	1.490	pCi/g
CU35-023	748510.724	2086789.94	0.8	1	Americium-241		0.526	76	0.020	pCi/g
CU35-023	748510.724	2086789.94	0.8	1	Plutonium-239/240		3.000	50	0.020	pCi/g
CU35-023	748510.724	2086789.94	0.8	1	Uranium-235		0.149	8	0.120	pCi/g
CU35-023	748510.724	2086789.94	0.8	1	Uranium-238		1.826	351	1.490	pCi/g
CU35-024	748491.853	2086743.653	0.4	0.6	Americium-241		4.114	76	0.020	pCi/g
CU35-024	748491.853	2086743.653	0.4	0.6	Plutonium-239/240		23.450	50	0.020	pCi/g
CU35-024	748491.853	2086743.653	0.4	0.6	Uranium-235		0.225	8	0.120	pCi/g
CU35-025	748556.991	2086771.142	0.7	0.9	Americium-241		0.773	76	0.020	pCi/g
CU35-025	748556.991	2086771.142	0.7	0.9	Plutonium-239/240		4.406	50	0.020	pCi/g
CU35-025	748556.991	2086771.142	0.7	0.9	Uranium-235		0.218	8	0.120	pCi/g
CU35-025	748556.991	2086771.142	0.7	0.9	Uranium-238		2.426	351	1.490	pCi/g
CU36-001	748567.274	2086928.878	0.3	0.5	Americium-241		2.034	76	0.023	pCi/g
CU36-001	748567.274	2086928.878	0.3	0.5	Plutonium-239/240		11.594	50	0.066	pCi/g
CU36-001	748567.274	2086928.878	0.3	0.5	Uranium-234		2.472	300	2.253	pCi/g
CU36-001	748567.274	2086928.878	0.3	0.5	Uranium-235		0.166	8	0.094	pCi/g
CU36-001	748567.274	2086928.878	0.3	0.5	Uranium-238		2.472	351	2.000	pCi/g
CU36-002	748613.559	2086910.083	0.6	0.8	Americium-241		0.514	76	0.020	pCi/g
CU36-002	748613.559	2086910.083	0.6	0.8	Plutonium-239/240		2.930	50	0.020	pCi/g
CU36-002	748613.559	2086910.083	0.6	0.8	Uranium-235		0.146	8	0.120	pCi/g
CU36-002	748613.559	2086910.083	0.6	0.8	Uranium-238		1.633	351	1.490	pCi/g
CU36-003	748594.762	2086863.786	0.4	0.6	Americium-241		1.506	76	0.020	pCi/g
CU36-003	748594.762	2086863.786	0.4	0.6	Plutonium-239/240		8.584	50	0.020	pCi/g
CU36-003	748594.762	2086863.786	0.4	0.6	Uranium-235		0.230	8	0.120	pCi/g
CU36-003	748594.762	2086863.786	0.4	0.6	Uranium-238		1.925	351	1.490	pCi/g
CU36-004	748575.831	2086817.385	0.6	0.8	Americium-241		0.354	76	0.020	pCi/g
CU36-004	748575.831	2086817.385	0.6	0.8	Plutonium-239/240		2.017	50	0.020	pCi/g
CU36-004	748575.831	2086817.385	0.6	0.8	Uranium-235		0.180	8	0.120	pCi/g
CU36-004	748575.831	2086817.385	0.6	0.8	Uranium-238		2.192	351	1.490	pCi/g
CU36-005	748659.881	2086891.291	0.5	0.7	Americium-241		1.439	76	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU36-005	748659.881	2086891.291	0.5	0.7	Plutonium-239/240		8.202	50	0.020	pCi/g
CU36-005	748659.881	2086891.291	0.5	0.7	Uranium-235		0.153	8	0.120	pCi/g
CU36-006	748641.031	2086844.956	0.6	0.8	Americium-241		1.591	76	0.020	pCi/g
CU36-006	748641.031	2086844.956	0.6	0.8	Plutonium-239/240		9.069	50	0.020	pCi/g
CU36-006	748641.031	2086844.956	0.6	0.8	Uranium-235		0.180	8	0.120	pCi/g
CU36-006	748641.031	2086844.956	0.6	0.8	Uranium-238		1.591	351	1.490	pCi/g
CU36-007	748622.3	2086798.52	0.7	0.9	Plutonium-239/240	U	4.123	50	0.020	pCi/g
CU36-007	748622.3	2086798.52	0.7	0.9	Uranium-234		3.790	300	2.640	pCi/g
CU36-007	748622.3	2086798.52	0.7	0.9	Uranium-235		0.234	8	0.120	pCi/g
CU36-007	748622.3	2086798.52	0.7	0.9	Uranium-238		3.790	351	1.490	pCi/g
CU36-008	748603.48	2086752.224	0.5	0.7	Americium-241		1.566	76	0.020	pCi/g
CU36-008	748603.48	2086752.224	0.5	0.7	Plutonium-239/240		8.926	50	0.020	pCi/g
CU36-008	748603.48	2086752.224	0.5	0.7	Uranium-234		3.562	300	2.640	pCi/g
CU36-008	748603.48	2086752.224	0.5	0.7	Uranium-235		0.204	8	0.120	pCi/g
CU36-008	748603.48	2086752.224	0.5	0.7	Uranium-238		3.562	351	1.490	pCi/g
CU36-009	748724.963	2086918.823	0.3	0.5	Americium-241		3.140	76	0.023	pCi/g
CU36-009	748724.963	2086918.823	0.3	0.5	Plutonium-239/240		13.800	50	0.066	pCi/g
CU36-010	748706.231	2086872.432	0.7	0.9	Americium-241		0.563	76	0.020	pCi/g
CU36-010	748706.231	2086872.432	0.7	0.9	Plutonium-239/240		3.210	50	0.020	pCi/g
CU36-010	748706.231	2086872.432	0.7	0.9	Uranium-238		2.258	351	1.490	pCi/g
CU36-011	748687.398	2086826.138	0.9	1.1	Plutonium-239/240	U	5.003	50	0.020	pCi/g
CU36-011	748687.398	2086826.138	0.9	1.1	Uranium-234		3.662	300	2.640	pCi/g
CU36-011	748687.398	2086826.138	0.9	1.1	Uranium-235		0.166	8	0.120	pCi/g
CU36-011	748687.398	2086826.138	0.9	1.1	Uranium-238		3.662	351	1.490	pCi/g
CU36-012	748668.64	2086779.669	0.3	0.5	Americium-241		7.258	76	0.023	pCi/g
CU36-012	748668.64	2086779.669	0.3	0.5	Plutonium-239/240		41.371	50	0.066	pCi/g
CU36-012	748668.64	2086779.669	0.3	0.5	Uranium-234		3.262	300	2.253	pCi/g
CU36-012	748668.64	2086779.669	0.3	0.5	Uranium-235		0.181	8	0.094	pCi/g
CU36-012	748668.64	2086779.669	0.3	0.5	Uranium-238		3.262	351	2.000	pCi/g
CU36-013	748752.476	2086853.57	0.5	0.7	Americium-241		6.681	76	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU36-013	748752.476	2086853.57	0.5	0.7	Plutonium-239/240		38.082	50	0.020	pCi/g
CU36-013	748752.476	2086853.57	0.5	0.7	Uranium-234		2.858	300	2.640	pCi/g
CU36-013	748752.476	2086853.57	0.5	0.7	Uranium-238		2.858	351	1.490	pCi/g
CU36-014	748733.612	2086807.336	1.1	1.3	Plutonium-239/240	U	1.231	50	0.020	pCi/g
CU36-015	748714.859	2086760.895	1.0	1.2	Plutonium-239/240	U	2.380	50	0.020	pCi/g
CU36-015	748714.859	2086760.895	1	1.2	Uranium-235		0.226	8	0.120	pCi/g
CU36-015	748714.859	2086760.895	1	1.2	Uranium-238		2.368	351	1.490	pCi/g
CU36-016	748761.117	2086742.283	1.3	1.5	Plutonium-239/240	U	4.839	50	0.020	pCi/g
CU36-016	748761.117	2086742.283	1.3	1.5	Uranium-234		4.425	300	2.640	pCi/g
CU36-016	748761.117	2086742.283	1.3	1.5	Uranium-235		0.271	8	0.120	pCi/g
CU36-016	748761.117	2086742.283	1.3	1.5	Uranium-238		4.425	351	1.490	pCi/g
CU37-000	748771.304	2086899.988	0.3	0.5	Americium-241		4.896	76	0.023	pCi/g
CU37-000	748771.304	2086899.988	0.3	0.5	Plutonium-239/240		27.907	50	0.066	pCi/g
CU37-000	748771.304	2086899.988	0.3	0.5	Uranium-235		0.205	8	0.094	pCi/g
CU37-001	748836.572	2086927.478	0.9	1.1	Americium-241		0.931	76	0.020	pCi/g
CU37-001	748836.572	2086927.478	0.9	1.1	Plutonium-239/240		5.308	50	0.020	pCi/g
CU37-001	748836.572	2086927.478	0.9	1.1	Uranium-234		2.670	300	2.640	pCi/g
CU37-001	748836.572	2086927.478	0.9	1.1	Uranium-235		0.152	8	0.120	pCi/g
CU37-001	748836.572	2086927.478	0.9	1.1	Uranium-238		2.670	351	1.490	pCi/g
CU37-002	748817.621	2086881.155	0.9	1.1	Americium-241		1.163	76	0.020	pCi/g
CU37-002	748817.621	2086881.155	0.9	1.1	Plutonium-239/240		6.629	50	0.020	pCi/g
CU37-002	748817.621	2086881.155	0.9	1.1	Uranium-235		0.223	8	0.120	pCi/g
CU37-002	748817.621	2086881.155	0.9	1.1	Uranium-238		2.050	351	1.490	pCi/g
CU37-003	748780.105	2086788.485	0.7	0.9	Americium-241		1.463	76	0.020	pCi/g
CU37-003	748780.105	2086788.485	0.7	0.9	Plutonium-239/240		8.339	50	0.020	pCi/g
CU37-003	748780.105	2086788.485	0.7	0.9	Uranium-235		0.201	8	0.120	pCi/g
CU37-003	748780.105	2086788.485	0.7	0.9	Uranium-238		2.023	351	1.490	pCi/g
CU37-004	748882.852	2086908.495	0.8	1	Americium-241		1.080	76	0.020	pCi/g
CU37-004	748882.852	2086908.495	0.8	1	Plutonium-239/240		6.156	50	0.020	pCi/g
CU37-004	748882.852	2086908.495	0.8	1	Uranium-235		0.208	8	0.120	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU37-004	748882.852	2086908.495	0.8	1	Uranium-238		1.867	351	1.490	pCi/g
CU37-005	748863.982	2086862.298	0.4	0.6	Americium-241		2.051	76	0.020	pCi/g
CU37-005	748863.982	2086862.298	0.4	0.6	Plutonium-239/240		11.691	50	0.020	pCi/g
CU37-005	748863.982	2086862.298	0.4	0.6	Uranium-235		0.352	8	0.120	pCi/g
CU37-005	748863.982	2086862.298	0.4	0.6	Uranium-238		1.897	351	1.490	pCi/g
CU37-006	748845.249	2086815.934	0.4	0.6	Americium-241		3.523	76	0.020	pCi/g
CU37-006	748845.249	2086815.934	0.4	0.6	Plutonium-239/240		20.081	50	0.020	pCi/g
CU37-006	748845.249	2086815.934	0.4	0.6	Uranium-235		0.174	8	0.120	pCi/g
CU37-007	748826.371	2086769.587	0.7	0.9	Plutonium-239/240	U	2.254	50	0.020	pCi/g
CU37-007	748826.371	2086769.587	0.7	0.9	Uranium-235		0.165	8	0.120	pCi/g
CU37-007	748826.371	2086769.587	0.7	0.9	Uranium-238		1.544	351	1.490	pCi/g
CU37-008	748948.003	2086936.148	0.7	0.9	Americium-241		2.683	76	0.020	pCi/g
CU37-008	748948.003	2086936.148	0.7	0.9	Plutonium-239/240		15.293	50	0.020	pCi/g
CU37-009	748929.226	2086889.869	0.7	0.9	Americium-241		0.829	76	0.020	pCi/g
CU37-009	748929.226	2086889.869	0.7	0.9	Plutonium-239/240		2.630	50	0.020	pCi/g
CU37-009	748929.226	2086889.869	0.7	0.9	Uranium-235		0.210	8	0.120	pCi/g
CU37-010	748910.261	2086843.578	0.5	0.7	Americium-241		6.631	76	0.020	pCi/g
CU37-010	748910.261	2086843.578	0.5	0.7	Plutonium-239/240		37.797	50	0.020	pCi/g
CU37-010	748910.261	2086843.578	0.5	0.7	Uranium-235		0.183	8	0.120	pCi/g
CU37-010	748910.261	2086843.578	0.5	0.7	Uranium-238		1.646	351	1.490	pCi/g
CU37-011	748891.35	2086797.151	0.4	0.6	Americium-241		6.431	76	0.020	pCi/g
CU37-011	748891.35	2086797.151	0.4	0.6	Plutonium-239/240		36.657	50	0.020	pCi/g
CU37-011	748891.35	2086797.151	0.4	0.6	Uranium-235		0.121	8	0.120	pCi/g
CU37-011	748891.35	2086797.151	0.4	0.6	Uranium-238		1.740	351	1.490	pCi/g
CU37-012	748872.56	2086750.91	0.3	0.5	Americium-241		7.173	76	0.023	pCi/g
CU37-012	748872.56	2086750.91	0.3	0.5	Plutonium-239/240		40.886	50	0.066	pCi/g
CU37-012	748872.56	2086750.91	0.3	0.5	Uranium-234		4.107	300	2.253	pCi/g
CU37-012	748872.56	2086750.91	0.3	0.5	Uranium-235		0.297	8	0.094	pCi/g
CU37-012	748872.56	2086750.91	0.3	0.5	Uranium-238		4.107	351	2.000	pCi/g
CU37-013	748956.609	2086824.695	0.5	0.7	Americium-241		3.351	76	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU37-013	748956.609	2086824.695	0.5	0.7	Plutonium-239/240		19.101	50	0.020	pCi/g
CU37-014	748937.832	2086778.411	0.3	0.5	Americium-241		5.290	76	0.023	pCi/g
CU37-014	748937.832	2086778.411	0.3	0.5	Americium-241		6.591	76	0.023	pCi/g
CU37-014	748937.832	2086778.411	0.3	0.5	Plutonium-239/240		32.200	50	0.066	pCi/g
CU38-002	748994.169	2086917.286	1.5	1.7	Americium-241		1.119	76	0.020	pCi/g
CU38-002	748994.169	2086917.286	1.5	1.7	Plutonium-239/240		6.378	50	0.020	pCi/g
CU38-002	748994.169	2086917.286	1.5	1.7	Uranium-238		2.150	351	1.490	pCi/g
CU38-003	748975.409	2086870.986	3.0	3.2	Plutonium-239/240	U	2.230	50	0.020	pCi/g
CU38-003	748975.409	2086870.986	3	3.2	Uranium-238		1.851	351	1.490	pCi/g
CU38-004	749040.726	2086898.559	2.5	2.7	Plutonium-239/240	U	1.829	50	0.020	pCi/g
CU38-004	749040.726	2086898.559	2.5	2.7	Uranium-235		0.158	8	0.120	pCi/g
CU38-004	749040.726	2086898.559	2.5	2.7	Uranium-238		1.992	351	1.490	pCi/g
CU38-005	749021.907	2086852.275	2.8	3.0	Plutonium-239/240	U	1.956	50	0.020	pCi/g
CU38-005	749021.907	2086852.275	2.8	3	Uranium-235		0.147	8	0.120	pCi/g
CU38-006	749002.99	2086805.81	0.3	0.5	Americium-241		2.187	76	0.023	pCi/g
CU38-006	749002.99	2086805.81	0.3	0.5	Plutonium-239/240		12.466	50	0.066	pCi/g
CU38-007	748984.217	2086759.511	0.7	0.9	Americium-241		2.247	76	0.020	pCi/g
CU38-007	748984.217	2086759.511	0.7	0.9	Plutonium-239/240		12.808	50	0.020	pCi/g
CU38-007	748984.217	2086759.511	0.7	0.9	Uranium-235		0.133	8	0.120	pCi/g
CU38-008	749105.674	2086925.955	0.5	0.7	Americium-241		1.315	76	0.020	pCi/g
CU38-008	749105.674	2086925.955	0.5	0.7	Plutonium-239/240		7.496	50	0.020	pCi/g
CU38-008	749105.674	2086925.955	0.5	0.7	Uranium-238		2.032	351	1.490	pCi/g
CU38-009	749086.908	2086879.629	1.2	1.4	Americium-241		4.644	76	0.020	pCi/g
CU38-009	749086.908	2086879.629	1.2	1.4	Plutonium-239/240		26.471	50	0.020	pCi/g
CU38-009	749086.908	2086879.629	1.2	1.4	Uranium-235		0.150	8	0.120	pCi/g
CU38-009	749086.908	2086879.629	1.2	1.4	Uranium-238		2.153	351	1.490	pCi/g
CU38-010	749068.077	2086833.517	0.6	0.8	Americium-241		0.876	76	0.020	pCi/g
CU38-010	749068.077	2086833.517	0.6	0.8	Plutonium-239/240		4.992	50	0.020	pCi/g
CU38-010	749068.077	2086833.517	0.6	0.8	Uranium-235		0.217	8	0.120	pCi/g
CU38-010	749068.077	2086833.517	0.6	0.8	Uranium-238		1.663	351	1.490	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU38-011	749049.247	2086787.033	0.7	0.9	Americium-241		4.025	76	0.020	pCi/g
CU38-011	749049.247	2086787.033	0.7	0.9	Plutonium-239/240		22.943	50	0.020	pCi/g
CU38-012	749030.413	2086740.806	0.8	1	Americium-241		0.712	76	0.020	pCi/g
CU38-012	749030.413	2086740.806	0.8	1.0	Plutonium-239/240		4.660	50	0.020	pCi/g
CU38-012	749030.413	2086740.806	0.8	1	Uranium-235		0.174	8	0.120	pCi/g
CU38-013	749151.993	2086907.181	0.2	0.4	Americium-241		1.815	76	0.023	pCi/g
CU38-013	749151.993	2086907.181	0.2	0.4	Plutonium-239/240		10.346	50	0.066	pCi/g
CU38-013	749151.993	2086907.181	0.2	0.4	Uranium-235		0.137	8	0.094	pCi/g
CU38-014	749133.158	2086860.857	0.2	0.4	Americium-241		0.394	76	0.023	pCi/g
CU38-014	749133.158	2086860.857	0.2	0.4	Plutonium-239/240		1.510	50	0.066	pCi/g
CU38-014	749133.158	2086860.857	0.2	0.4	Uranium-235		0.223	8	0.094	pCi/g
CU38-015	749114.376	2086814.653	0.1	0.3	Americium-241		5.197	76	0.023	pCi/g
CU38-015	749114.376	2086814.653	0.1	0.3	Plutonium-239/240		29.623	50	0.066	pCi/g
CU38-015	749114.376	2086814.653	0.1	0.3	Uranium-235		0.150	8	0.094	pCi/g
CU38-016	749095.558	2086768.246	0.3	0.5	Americium-241		8.132	76	0.023	pCi/g
CU38-016	749095.558	2086768.246	0.3	0.5	Plutonium-239/240		46.352	50	0.066	pCi/g
CU38-016	749095.558	2086768.246	0.3	0.5	Uranium-235		0.165	8	0.094	pCi/g
CU38-017	749160.775	2086795.708	0.4	0.6	Plutonium-239/240		20.794	50	0.020	pCi/g
CU38-018	749141.923	2086749.396	1.1	1.3	Plutonium-239/240	U	1.693	50	0.020	pCi/g
CU38-018	749141.923	2086749.396	1.1	1.3	Uranium-234		3.028	300	2.640	pCi/g
CU38-018	749141.923	2086749.396	1.1	1.3	Uranium-235		0.166	8	0.120	pCi/g
CU38-018	749141.923	2086749.396	1.1	1.3	Uranium-238		3.028	351	1.490	pCi/g
CU39-012	749217.231	2086934.738	1.0	1.2	Plutonium-239/240		8.345	50	0.020	pCi/g
CU39-013	749198.372	2086888.394	0.4	0.6	Plutonium-239/240		29.606	50	0.020	pCi/g
CU39-014	749179.508	2086842.151	1.3	1.5	Plutonium-239/240	U	5.093	50	0.020	pCi/g
CU39-014	749179.508	2086842.151	1.3	1.5	Uranium-234		5.725	300	2.640	pCi/g
CU39-014	749179.508	2086842.151	1.3	1.5	Uranium-235		0.237	8	0.120	pCi/g
CU39-014	749179.508	2086842.151	1.3	1.5	Uranium-238		5.725	351	1.490	pCi/g
CU39-015	749263.456	2086915.849	1.5	1.7	Plutonium-239/240	U	2.304	50	0.020	pCi/g
CU39-015	749263.456	2086915.849	1.5	1.7	Uranium-235		0.198	8	0.120	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU39-016	749244.776	2086869.646	0.5	0.7	Plutonium-239/240		7.781	50	0.020	pCi/g
CU39-017	749225.84	2086823.286	0.8	1.0	Plutonium-239/240		10.562	50	0.020	pCi/g
CU39-018	749207.061	2086776.902	0.8	1.0	Plutonium-239/240		4.861	50	0.020	pCi/g
CU39-019	749309.755	2086897.102	0.8	1.0	Plutonium-239/240	U	1.912	50	0.020	pCi/g
CU39-019	749309.755	2086897.102	0.8	1	Uranium-235		0.128	8	0.120	pCi/g
CU39-020	749291.021	2086850.633	1.0	1.2	Plutonium-239/240		16.832	50	0.020	pCi/g
CU39-021	749272.226	2086804.42	0.7	0.9	Plutonium-239/240		2.323	50	0.020	pCi/g
CU39-022	749253.351	2086758.029	1.0	1.2	Plutonium-239/240		8.607	50	0.020	pCi/g
CU39-023	749356.225	2086878.237	0.4	0.6	Plutonium-239/240	U	2.282	50	0.020	pCi/g
CU39-023	749356.225	2086878.237	0.4	0.6	Uranium-235		0.151	8	0.120	pCi/g
CU39-023	749356.225	2086878.237	0.4	0.6	Uranium-238		2.052	351	1.490	pCi/g
CU39-024	749337.351	2086831.963	0.2	0.5	Americium-241		0.746	76	0.023	pCi/g
CU39-024	749337.351	2086831.963	0.2	0.5	Plutonium-239/240		4.254	50	0.066	pCi/g
CU39-024	749337.351	2086831.963	0.2	0.5	Uranium-235		0.136	8	0.094	pCi/g
CU39-025	749299.78	2086739.363	0.3	0.5	Americium-241		2.430	76	0.023	pCi/g
CU39-025	749299.78	2086739.363	0.3	0.5	Plutonium-239/240		13.851	50	0.066	pCi/g
CU39-025	749299.78	2086739.363	0.3	0.5	Uranium-235		0.160	8	0.094	pCi/g
CU40-004	749375.04	2086924.624	0.4	0.6	Plutonium-239/240	U	1.180	50	0.020	pCi/g
CU40-004	749375.04	2086924.624	0.4	0.6	Uranium-235		0.171	8	0.120	pCi/g
CU40-004	749375.04	2086924.624	0.4	0.6	Uranium-238		2.082	351	1.490	pCi/g
CU40-005	749421.292	2086905.725	0.6	0.8	Plutonium-239/240		2.566	50	0.020	pCi/g
CU40-006	749402.447	2086859.501	0.4	0.6	Plutonium-239/240		7.860	50	0.020	pCi/g
CU40-007	749383.72	2086813.266	0.3	0.5	Americium-241		0.190	76	0.023	pCi/g
CU40-007	749383.72	2086813.266	0.3	0.5	Plutonium-239/240		0.400	50	0.066	pCi/g
CU40-007	749383.72	2086813.266	0.3	0.5	Uranium-235		0.116	8	0.094	pCi/g
CU40-008	749486.404	2086933.207	0.6	0.8	Plutonium-239/240		11.212	50	0.020	pCi/g
CU40-009	749467.64	2086886.997	0.4	0.6	Plutonium-239/240		0.520	50	0.020	pCi/g
CU40-010	749448.855	2086840.668	0.5	0.7	Plutonium-239/240		5.686	50	0.020	pCi/g
CU40-011	749430.122	2086794.407	0.6	0.8	Plutonium-239/240		42.505	50	0.020	pCi/g
CU40-012	749411.144	2086748.114	0.4	0.6	Plutonium-239/240		12.095	50	0.020	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CU40-013	749532.793	2086914.524	0.5	0.7	Plutonium-239/240		1.560	50	0.020	pCi/g
CU40-014	749513.952	2086868.223	0.4	0.6	Plutonium-239/240	U	0.963	50	0.020	pCi/g
CU40-014	749513.952	2086868.223	0.4	0.6	Uranium-235		0.206	8	0.120	pCi/g
CU40-015	749495.107	2086821.833	0.4	0.6	Plutonium-239/240		3.143	50	0.020	pCi/g
CU40-016	749476.314	2086775.585	0.5	0.7	Plutonium-239/240		3.792	50	0.020	pCi/g
CU40-017	749378.931	2086871.12	1.1	1.4	Plutonium-239/240		6.652	50	0.020	pCi/g
CU40-018	749393.889	2086916.504	1.0	1.3	Plutonium-239/240	U	2.377	50	0.020	pCi/g
CU40-018	749393.889	2086916.504	1	1.3	Uranium-234		46.500	300	2.640	pCi/g
CU40-018	749393.889	2086916.504	1	1.3	Uranium-235		2.732	8	0.120	pCi/g
CU40-018	749393.889	2086916.504	1	1.3	Uranium-238		46.500	351	1.490	pCi/g
CV35-009	748409.478	2086939.019	0.3	0.5	Americium-241		5.189	76	0.023	pCi/g
CV35-009	748409.478	2086939.019	0.3	0.5	Plutonium-239/240		29.577	50	0.066	pCi/g
CV35-010	748539.671	2086994.015	0.1	0.3	Americium-241		5.822	76	0.023	pCi/g
CV35-010	748539.671	2086994.015	0.1	0.3	Plutonium-239/240		33.185	50	0.066	pCi/g
CV35-010	748539.671	2086994.015	0.1	0.3	Uranium-235		0.160	8	0.094	pCi/g
CV36-017	748586.176	2086975.168	0.1	0.3	Americium-241		7.643	76	0.023	pCi/g
CV36-017	748586.176	2086975.168	0.1	0.3	Plutonium-239/240		43.565	50	0.066	pCi/g
CV36-018	748632.334	2086956.419	0.5	0.7	Plutonium-239/240		16.120	50	0.020	pCi/g
CV36-019	748678.66	2086937.624	0.1	0.3	Americium-241		4.036	76	0.023	pCi/g
CV36-019	748678.66	2086937.624	0.1	0.3	Plutonium-239/240		23.005	50	0.066	pCi/g
CV36-019	748678.66	2086937.624	0.1	0.3	Uranium-235		0.230	8	0.094	pCi/g
CV36-024	748626.257	2087080.284	0.2	0.4	Americium-241		1.048	76	0.023	pCi/g
CV36-024	748626.257	2087080.284	0.2	0.4	Plutonium-239/240		5.974	50	0.066	pCi/g
CV36-024	748626.257	2087080.284	0.2	0.4	Uranium-234		2.271	300	2.253	pCi/g
CV36-024	748626.257	2087080.284	0.2	0.4	Uranium-235		0.134	8	0.094	pCi/g
CV36-024	748626.257	2087080.284	0.2	0.4	Uranium-238		2.271	351	2.000	pCi/g
CV37-000	748790.186	2086946.225	1.1	1.3	Plutonium-239/240		4.049	50	0.020	pCi/g
CV37-001	748911.732	2087112.745	0.5	0.7	Plutonium-239/240		1.590	50	0.020	pCi/g
CV37-002	748892.761	2087066.447	1.7	1.9	Plutonium-239/240	U	0.500	50	0.020	pCi/g
CV37-002	748892.761	2087066.447	1.7	1.9	Uranium-235		0.182	8	0.120	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CV37-002	748892.761	2087066.447	1.7	1.9	Uranium-238		1.587	351	1.490	pCi/g
CV37-003	748874.027	2087020.173	1.8	2.0	Plutonium-239/240	U	1.334	50	0.020	pCi/g
CV37-003	748874.027	2087020.173	1.77	1.97	Uranium-235		0.224	8	0.120	pCi/g
CV37-003	748874.027	2087020.173	1.77	1.97	Uranium-238		1.578	351	1.490	pCi/g
CV37-004	748855.19	2086973.746	1.8	2.0	Plutonium-239/240		4.192	50	0.020	pCi/g
CV37-005	748958.069	2087093.912	0.6	0.8	Plutonium-239/240		11.098	50	0.020	pCi/g
CV37-006	748939.159	2087047.644	0.1	0.3	Americium-241		1.245	76	0.023	pCi/g
CV37-006	748939.159	2087047.644	0.1	0.3	Plutonium-239/240		7.097	50	0.066	pCi/g
CV37-006	748939.159	2087047.644	0.1	0.3	Uranium-235		0.192	8	0.094	pCi/g
CV37-006	748939.159	2087047.644	0.1	0.3	Uranium-238		2.195	351	2.000	pCi/g
CV37-007	748920.38	2087001.321	0.7	0.9	Plutonium-239/240		12.147	50	0.020	pCi/g
CV37-008	748901.527	2086955.059	0.8	1.0	Plutonium-239/240	U	0.980	50	0.020	pCi/g
CV38-002	749023.116	2087121.454	0.5	0.7	Plutonium-239/240		17.368	50	0.020	pCi/g
CV38-003	749004.42	2087075.107	1.0	1.2	Plutonium-239/240		3.758	50	0.020	pCi/g
CV38-004	748985.516	2087028.787	1.3	1.5	Plutonium-239/240		5.599	50	0.020	pCi/g
CV38-005	748966.722	2086982.593	0.6	0.8	Plutonium-239/240		42.482	50	0.020	pCi/g
CV38-006	749069.558	2087102.738	0.2	0.4	Americium-241		6.787	76	0.023	pCi/g
CV38-006	749069.558	2087102.738	0.2	0.4	Plutonium-239/240		38.686	50	0.066	pCi/g
CV38-006	749069.558	2087102.738	0.2	0.4	Uranium-234		5.616	300	2.253	pCi/g
CV38-006	749069.558	2087102.738	0.2	0.4	Uranium-235		0.238	8	0.094	pCi/g
CV38-006	749069.558	2087102.738	0.2	0.4	Uranium-238		5.616	351	2.000	pCi/g
CV38-007	749050.685	2087056.193	0.4	0.6	Plutonium-239/240		8.254	50	0.020	pCi/g
CV38-008	749031.818	2087009.945	0.9	1.1	Plutonium-239/240		4.563	50	0.020	pCi/g
CV38-009	749012.978	2086963.705	0.8	1.0	Plutonium-239/240		17.539	50	0.020	pCi/g
CV38-010	749134.56	2087130.15	0.4	0.6	Plutonium-239/240		9.110	50	0.020	pCi/g
CV38-011	749115.854	2087083.786	0.3	0.5	Americium-241		4.707	76	0.023	pCi/g
CV38-011	749115.854	2087083.786	0.3	0.5	Plutonium-239/240		26.830	50	0.066	pCi/g
CV38-014	749059.303	2086944.796	1.6	1.8	Plutonium-239/240		0.431	50	0.020	pCi/g
CV38-015	749143.41	2087018.53	1.0	1.2	Plutonium-239/240		8.185	50	0.020	pCi/g
CV38-016	749124.513	2086972.334	1.1	1.3	Plutonium-239/240		5.610	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CV38-017	749096.939	2087037.5	0.5	0.7	Plutonium-239/240		8.316	50	0.020	pCi/g
CV38-018	749078.19	2086991.136	0.8	1.0	Plutonium-239/240		4.040	50	0.020	pCi/g
CV39-009	749181.022	2087111.321	0.6	0.8	Plutonium-239/240		2.391	50	0.020	pCi/g
CV39-010	749162.118	2087064.979	0.9	1.1	Plutonium-239/240		5.000	50	0.020	pCi/g
CV39-011	749227.287	2087092.513	0.6	0.8	Plutonium-239/240		3.952	50	0.020	pCi/g
CV39-012	749208.412	2087046.18	0.6	0.8	Plutonium-239/240		2.083	50	0.020	pCi/g
CV39-013	749189.677	2086999.915	0.8	1.0	Plutonium-239/240		10.921	50	0.020	pCi/g
CV39-014	749170.882	2086953.56	0.2	0.4	Americium-241		0.825	76	0.023	pCi/g
CV39-014	749170.882	2086953.56	0.2	0.4	Plutonium-239/240		4.701	50	0.066	pCi/g
CV39-015	749292.363	2087120.053	0.3	0.5	Americium-241		3.276	76	0.023	pCi/g
CV39-015	749292.363	2087120.053	0.3	0.5	Plutonium-239/240		18.673	50	0.066	pCi/g
CV39-016	749273.627	2087073.738	0.5	0.7	Plutonium-239/240		35.790	50	0.020	pCi/g
CV39-017	749254.811	2087027.466	0.6	0.8	Plutonium-239/240		8.368	50	0.020	pCi/g
CV39-018	749235.918	2086980.997	0.5	0.7	Plutonium-239/240		26.243	50	0.020	pCi/g
CV39-019	749338.74	2087101.188	0.1	0.3	Americium-241		1.758	76	0.023	pCi/g
CV39-019	749338.74	2087101.188	0.1	0.3	Plutonium-239/240		10.021	50	0.066	pCi/g
CV39-020	749319.882	2087054.94	0.5	0.7	Plutonium-239/240		4.415	50	0.020	pCi/g
CV39-021	749301.097	2087008.54	0.4	0.6	Plutonium-239/240		3.952	50	0.020	pCi/g
CV39-022	749282.306	2086962.248	0.3	0.5	Americium-241		3.714	76	0.023	pCi/g
CV39-022	749282.306	2086962.248	0.3	0.5	Plutonium-239/240		21.170	50	0.066	pCi/g
CV39-023	749347.5	2086989.641	0.6	0.8	Plutonium-239/240		2.432	50	0.020	pCi/g
CV39-024	749328.615	2086943.261	0.9	1.1	Plutonium-239/240		9.741	50	0.020	pCi/g
CV40-014	749403.875	2087128.755	0.4	0.6	Plutonium-239/240		7.741	50	0.020	pCi/g
CV40-015	749385.014	2087082.541	0.2	0.4	Americium-241		7.380	76	0.023	pCi/g
CV40-015	749385.014	2087082.541	0.2	0.4	Plutonium-239/240		42.066	50	0.066	pCi/g
CV40-016	749366.282	2087036.058	0.5	0.7	Plutonium-239/240		13.914	50	0.020	pCi/g
CV40-019	749393.752	2086970.906	0.3	0.5	Plutonium-239/240	U	2.257	50	0.066	pCi/g
CV40-019	749393.752	2086970.906	0.3	0.5	Uranium-235		0.172	8	0.094	pCi/g
CV40-019	749393.752	2086970.906	0.3	0.5	Uranium-238		2.210	351	2.000	pCi/g
CV40-020	749496.48	2087091.227	0.3	0.5	Plutonium-239/240	U	3.871	50	0.066	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	AL	WRW	Bkg	Units
CV40-020	749496.48	2087091.227	0.3	0.5	Uranium-234		5.215	300		2.253	pCi/g
CV40-020	749496.48	2087091.227	0.3	0.5	Uranium-238		5.215	351		2.000	pCi/g
CV40-021	749477.72	2087044.754	0.3	0.5	Plutonium-239/240	U	4.338	50		0.066	pCi/g
CV40-021	749477.72	2087044.754	0.3	0.5	Uranium-234		4.678	300		2.253	pCi/g
CV40-021	749477.72	2087044.754	0.3	0.5	Uranium-235		0.201	8		0.094	pCi/g
CV40-021	749477.72	2087044.754	0.3	0.5	Uranium-238		4.678	351		2.000	pCi/g
CV40-022	749459.065	2086998.454	0.4	0.6	Plutonium-239/240		15.356	50		0.020	pCi/g
CV40-023	749542.901	2087072.302	0.4	0.6	Plutonium-239/240		1.404	50		0.020	pCi/g
CV40-024	749524.074	2087025.918	0.2	0.4	Americium-241		1.893	76		0.023	pCi/g
CV40-024	749524.074	2087025.918	0.2	0.4	Plutonium-239/240		10.790	50		0.066	pCi/g
CV40-025	749505.232	2086979.684	0.2	0.4	Americium-241		1.455	76		0.023	pCi/g
CV40-025	749505.232	2086979.684	0.2	0.4	Plutonium-239/240		8.294	50		0.066	pCi/g
CV40-025	749505.232	2086979.684	0.2	0.4	Uranium-235		0.136	8		0.094	pCi/g
CV40-026	749413.697	2086964.597	1.3	1.5	Plutonium-239/240	U	0.003	50		0.020	pCi/g
CV40-026	749413.697	2086964.597	1.3	1.5	Uranium-234		5.910	300		2.640	pCi/g
CV40-026	749413.697	2086964.597	1.3	1.5	Uranium-235		0.409	8		0.120	pCi/g
CV40-026	749413.697	2086964.597	1.3	1.5	Uranium-238		4.430	351		1.490	pCi/g
CV40-027	749429.625	2087006.337	1.3	1.5	Plutonium-239/240	U	2.061	50		0.020	pCi/g
CV40-027	749429.625	2087006.337	1.3	1.5	Uranium-234		2.717	300		2.640	pCi/g
CV40-027	749429.625	2087006.337	1.3	1.5	Uranium-235		0.163	8		0.120	pCi/g
CV40-027	749429.625	2087006.337	1.3	1.5	Uranium-238		2.717	351		1.490	pCi/g
CV40-028	749455.514	2087062.096	0.9	1.2	Plutonium-239/240	U	2.221	50		0.020	pCi/g
CV40-028	749455.514	2087062.096	0.9	1.2	Uranium-234		7.915	300		2.640	pCi/g
CV40-028	749455.514	2087062.096	0.9	1.2	Uranium-235		0.553	8		0.120	pCi/g
CV40-028	749455.514	2087062.096	0.9	1.2	Uranium-238		7.915	351		1.490	pCi/g
CW37-000	748829.232	2087308.115	0.3	0.5	Americium-241		0.489	76		0.023	pCi/g
CW37-000	748829.232	2087308.115	0.3	0.5	Plutonium-239/240		2.784	50		0.066	pCi/g
CW37-001	748810.334	2087261.79	0.2	0.4	Americium-241		0.968	76		0.023	pCi/g
CW37-001	748810.334	2087261.79	0.2	0.4	Plutonium-239/240		2.800	50		0.066	pCi/g
CW37-001	748810.334	2087261.79	0.2	0.4	Uranium-235		0.169	8		0.094	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CW37-002	748894.398	2087335.75	0.2	0.4	Americium-241		4.372	76	0.023	pCi/g
CW37-002	748894.398	2087335.75	0.2	0.4	Plutonium-239/240		24.920	50	0.066	pCi/g
CW37-002	748894.398	2087335.75	0.2	0.4	Uranium-235		0.223	8	0.094	pCi/g
CW37-003	748875.529	2087289.383	2.6	2.8	Plutonium-239/240	U	2.169	50	0.020	pCi/g
CW37-003	748875.529	2087289.383	2.6	2.8	Uranium-238		1.896	351	1.490	pCi/g
CW37-004	748856.72	2087242.951	0.9	1.1	Plutonium-239/240	U	4.193	50	0.020	pCi/g
CW37-004	748856.72	2087242.951	0.9	1.1	Uranium-234		3.820	300	2.640	pCi/g
CW37-004	748856.72	2087242.951	0.9	1.1	Uranium-235		0.204	8	0.120	pCi/g
CW37-004	748856.72	2087242.951	0.9	1.1	Uranium-238		3.820	351	1.490	pCi/g
CW37-005	748940.76	2087316.958	0.8	1.0	Plutonium-239/240	U	0.787	50	0.020	pCi/g
CW37-005	748940.76	2087316.958	0.8	1	Uranium-238		2.584	351	1.490	pCi/g
CW37-006	748921.721	2087270.589	0.5	0.7	Plutonium-239/240		0.854	50	0.020	pCi/g
CW37-007	748902.975	2087224.192	0.3	0.5	Americium-241		1.353	76	0.023	pCi/g
CW37-007	748902.975	2087224.192	0.3	0.5	Plutonium-239/240		7.712	50	0.066	pCi/g
CW37-007	748902.975	2087224.192	0.3	0.5	Uranium-235		0.160	8	0.094	pCi/g
CW37-008	748884.08	2087177.848	0.3	0.5	Americium-241		1.578	76	0.023	pCi/g
CW37-008	748884.08	2087177.848	0.3	0.5	Plutonium-239/240		8.995	50	0.066	pCi/g
CW37-009	748949.449	2087205.352	0.4	0.6	Plutonium-239/240		32.348	50	0.020	pCi/g
CW38-001	748986.944	2087298.127	0.1	0.3	Americium-241		7.214	76	0.023	pCi/g
CW38-001	748986.944	2087298.127	0.1	0.3	Plutonium-239/240		41.120	50	0.066	pCi/g
CW38-002	748968.207	2087251.626	0.3	0.5	Americium-241		4.962	76	0.023	pCi/g
CW38-002	748968.207	2087251.626	0.3	0.5	Plutonium-239/240		28.283	50	0.066	pCi/g
CW38-002	748968.207	2087251.626	0.3	0.5	Uranium-234		6.683	300	2.253	pCi/g
CW38-002	748968.207	2087251.626	0.3	0.5	Uranium-235		0.254	8	0.094	pCi/g
CW38-002	748968.207	2087251.626	0.3	0.5	Uranium-238		6.683	351	2.000	pCi/g
CW38-003	749052.036	2087325.531	0.3	0.5	Americium-241		4.152	76	0.023	pCi/g
CW38-003	749052.036	2087325.531	0.3	0.5	Plutonium-239/240		23.666	50	0.066	pCi/g
CW38-003	749052.036	2087325.531	0.3	0.5	Uranium-235		0.142	8	0.094	pCi/g
CW38-004	749033.317	2087279.188	0.4	0.6	Plutonium-239/240		14.723	50	0.020	pCi/g
CW38-005	749014.307	2087232.879	0.5	0.7	Plutonium-239/240		13.503	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CW38-006	748995.576	2087186.699	0.1	0.3	Americium-241		2.216	76	0.023	pCi/g
CW38-006	748995.576	2087186.699	0.1	0.3	Plutonium-239/240		12.631	50	0.066	pCi/g
CW38-007	749098.376	2087306.856	0.3	0.5	Americium-241		5.780	76	0.023	pCi/g
CW38-007	749098.376	2087306.856	0.3	0.5	Plutonium-239/240		32.946	50	0.066	pCi/g
CW38-008	749079.721	2087260.429	0.7	0.9	Plutonium-239/240		2.330	50	0.020	pCi/g
CW38-009	749060.931	2087214.03	1.6	1.8	Plutonium-239/240	U	4.215	50	0.020	pCi/g
CW38-009	749060.931	2087214.03	1.6	1.8	Uranium-234		4.058	300	2.640	pCi/g
CW38-009	749060.931	2087214.03	1.6	1.8	Uranium-235		0.212	8	0.120	pCi/g
CW38-009	749060.931	2087214.03	1.6	1.8	Uranium-238		4.058	351	1.490	pCi/g
CW38-010	749041.981	2087167.684	0.3	0.5	Americium-241		2.790	76	0.023	pCi/g
CW38-010	749041.981	2087167.684	0.3	0.5	Plutonium-239/240		15.903	50	0.066	pCi/g
CW38-010	749041.981	2087167.684	0.3	0.5	Uranium-234		2.261	300	2.253	pCi/g
CW38-010	749041.981	2087167.684	0.3	0.5	Uranium-238		2.261	351	2.000	pCi/g
CW38-011	749144.699	2087287.869	0.2	0.4	Americium-241		3.040	76	0.023	pCi/g
CW38-011	749144.699	2087287.869	0.2	0.4	Plutonium-239/240		16.600	50	0.066	pCi/g
CW38-011	749144.699	2087287.869	0.2	0.4	Uranium-235		0.194	8	0.094	pCi/g
CW38-012	749125.98	2087241.625	0.9	1.1	Plutonium-239/240		12.449	50	0.020	pCi/g
CW38-013	749107.105	2087195.391	0.3	0.5	Americium-241		5.002	76	0.023	pCi/g
CW38-013	749107.105	2087195.391	0.3	0.5	Plutonium-239/240		28.511	50	0.066	pCi/g
CW38-014	749088.316	2087149.018	0.7	0.9	Plutonium-239/240	U	4.041	50	0.020	pCi/g
CW38-014	749088.316	2087149.018	0.7	0.9	Uranium-234		4.029	300	2.640	pCi/g
CW38-014	749088.316	2087149.018	0.7	0.9	Uranium-235		0.197	8	0.120	pCi/g
CW38-014	749088.316	2087149.018	0.7	0.9	Uranium-238		4.029	351	1.490	pCi/g
CW38-015	749153.45	2087176.373	0.5	0.7	Plutonium-239/240		4.379	50	0.020	pCi/g
CW39-012	749163.638	2087334.22	0.1	0.3	Americium-241		4.285	76	0.023	pCi/g
CW39-012	749163.638	2087334.22	0.1	0.3	Plutonium-239/240		24.425	50	0.066	pCi/g
CW39-012	749163.638	2087334.22	0.1	0.3	Uranium-235		0.112	8	0.094	pCi/g
CW39-013	749209.943	2087315.429	0.1	0.3	Americium-241		4.750	76	0.023	pCi/g
CW39-013	749209.943	2087315.429	0.1	0.3	Plutonium-239/240		27.075	50	0.066	pCi/g
CW39-013	749209.943	2087315.429	0.1	0.3	Uranium-234		2.845	300	2.253	pCi/g

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Draft Closeout Report for IHSS Group 900-11, IHSS 140 and IHSS 155

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CW39-013	749209.943	2087315.429	0.1	0.3	Uranium-238		2.845	351	2.000	pCi/g
CW39-014	749191.109	2087269.256	0.6	0.8	Plutonium-239/240		8.020	50	0.020	pCi/g
CW39-015	749172.194	2087222.964	0.8	1.0	Plutonium-239/240		7.718	50	0.020	pCi/g
CW39-016	749256.149	2087296.664	0.5	0.7	Plutonium-239/240		3.458	50	0.020	pCi/g
CW39-017	749237.406	2087250.279	0.6	0.8	Plutonium-239/240		3.767	50	0.020	pCi/g
CW39-018	749218.558	2087204.089	0.4	0.6	Plutonium-239/240		42.038	50	0.020	pCi/g
CW39-019	749199.764	2087157.618	0.1	0.3	Americium-241		3.430	76	0.023	pCi/g
CW39-019	749199.764	2087157.618	0.1	0.3	Plutonium-239/240		19.551	50	0.066	pCi/g
CW39-019	749199.764	2087157.618	0.1	0.3	Uranium-234		2.320	300	2.253	pCi/g
CW39-019	749199.764	2087157.618	0.1	0.3	Uranium-235		0.253	8	0.094	pCi/g
CW39-019	749199.764	2087157.618	0.1	0.3	Uranium-238		2.320	351	2.000	pCi/g
CW39-020	749321.373	2087324.113	0.3	0.5	Americium-241		1.269	76	0.023	pCi/g
CW39-020	749321.373	2087324.113	0.3	0.5	Plutonium-239/240		7.233	50	0.066	pCi/g
CW39-020	749321.373	2087324.113	0.3	0.5	Uranium-235		0.164	8	0.094	pCi/g
CW39-021	749302.536	2087277.811	1.1	1.3	Plutonium-239/240		31.510	50	0.020	pCi/g
CW39-022	749283.773	2087231.476	0.7	0.9	Plutonium-239/240		25.052	50	0.020	pCi/g
CW39-023	749264.818	2087185.22	0.6	0.8	Plutonium-239/240		5.962	50	0.020	pCi/g
CW39-024	749246.067	2087138.835	0.1	0.3	Americium-241		1.700	76	0.023	pCi/g
CW39-024	749246.067	2087138.835	0.1	0.3	Plutonium-239/240		9.690	50	0.066	pCi/g
CW39-025	749348.865	2087258.964	0.7	1.0	Plutonium-239/240		0.523	50	0.020	pCi/g
CW39-026	749330.118	2087212.585	0.3	0.5	Americium-241		1.277	76	0.023	pCi/g
CW39-026	749330.118	2087212.585	0.3	0.5	Plutonium-239/240		7.279	50	0.066	pCi/g
CW39-027	749311.238	2087166.369	0.4	0.6	Plutonium-239/240		19.751	50	0.020	pCi/g
CW39-028	749357.672	2087147.582	0.5	0.7	Plutonium-239/240		3.550	50	0.020	pCi/g
CW40-009	749367.712	2087305.218	0.3	0.5	Americium-241		2.620	76	0.023	pCi/g
CW40-009	749367.712	2087305.218	0.3	0.5	Plutonium-239/240		14.934	50	0.066	pCi/g
CW40-009	749367.712	2087305.218	0.3	0.5	Uranium-235		0.209	8	0.094	pCi/g
CW40-010	749432.779	2087332.892	0.3	0.5	Americium-241		2.289	76	0.023	pCi/g
CW40-010	749432.779	2087332.892	0.3	0.5	Plutonium-239/240		13.047	50	0.066	pCi/g
CW40-010	749432.779	2087332.892	0.3	0.5	Uranium-234		4.250	300	2.253	pCi/g

Draft Closeout Report for IHSS Group 900-11, IHSS 140 and IHSS 155

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CW40-010	749432.779	2087332.892	0.3	0.5	Uranium-235		0.172	8	0.094	pCi/g
CW40-010	749432.779	2087332.892	0.3	0.5	Uranium-238		4.250	351	2.000	pCi/g
CW40-011	749414.063	2087286.469	0.4	0.6	Plutonium-239/240		9.040	50	0.020	pCi/g
CW40-012	749395.301	2087240.151	0.4	0.6	Plutonium-239/240		15.379	50	0.020	pCi/g
CW40-013	749376.276	2087193.801	0.4	0.6	Plutonium-239/240		16.798	50	0.020	pCi/g
CW40-014	749479.146	2087314.017	0.2	0.4	Americium-241		3.283	76	0.023	pCi/g
CW40-014	749479.146	2087314.017	0.2	0.4	Plutonium-239/240		18.713	50	0.066	pCi/g
CW40-014	749479.146	2087314.017	0.2	0.4	Uranium-235		0.221	8	0.094	pCi/g
CW40-015	749460.35	2087267.553	0.1	0.3	Americium-241		7.926	76	0.023	pCi/g
CW40-015	749460.35	2087267.553	0.1	0.3	Plutonium-239/240		45.178	50	0.066	pCi/g
CW40-016	749441.584	2087221.43	0.3	0.5	Plutonium-239/240	U	1.346	50	0.066	pCi/g
CW40-017	749422.903	2087175.153	0.2	0.4	Americium-241		2.842	76	0.023	pCi/g
CW40-017	749422.903	2087175.153	0.2	0.4	Plutonium-239/240		16.199	50	0.066	pCi/g
CW40-017	749422.903	2087175.153	0.2	0.4	Uranium-234		3.626	300	2.253	pCi/g
CW40-017	749422.903	2087175.153	0.2	0.4	Uranium-238		3.626	351	2.000	pCi/g
CW40-018	749506.606	2087248.946	0.4	0.7	Plutonium-239/240		10.876	50	0.020	pCi/g
CW40-019	749487.76	2087202.603	0.5	0.7	Plutonium-239/240		12.677	50	0.020	pCi/g
CX36-006	748727.714	2087457.243	0.4	0.6	Plutonium-239/240		5.631	50	0.020	pCi/g
CX36-007	748755.462	2087392.308	0.1	0.3	Americium-241		5.710	76	0.023	pCi/g
CX36-007	748755.462	2087392.308	0.1	0.3	Plutonium-239/240		42.600	50	0.066	pCi/g
CX36-007	748755.462	2087392.308	0.1	0.3	Uranium-235		0.165	8	0.094	pCi/g
CX36-007	748755.462	2087392.308	0.1	0.3	Uranium-238		2.157	351	2.000	pCi/g
CX37-003	748811.737	2087531.096	0.1	0.3	Americium-241		5.236	76	0.023	pCi/g
CX37-003	748811.737	2087531.096	0.1	0.3	Plutonium-239/240		29.845	50	0.066	pCi/g
CX37-004	748792.946	2087484.774	0.3	0.5	Americium-241		5.218	76	0.023	pCi/g
CX37-004	748792.946	2087484.774	0.3	0.5	Plutonium-239/240		29.743	50	0.066	pCi/g
CX37-004	748792.946	2087484.774	0.3	0.5	Uranium-235		0.178	8	0.094	pCi/g
CX37-005	748774.151	2087438.385	0.4	0.6	Plutonium-239/240		25.593	50	0.020	pCi/g
CX37-006	748858.132	2087512.236	0.6	0.8	Plutonium-239/240		8.120	50	0.020	pCi/g
CX37-007	748839.384	2087465.928	0.4	0.6	Plutonium-239/240		14.638	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CX37-008	748820.441	2087419.679	0.7	0.9	Plutonium-239/240		1.629	50	0.020	pCi/g
CX37-009	748801.61	2087373.332	0.1	0.3	Americium-241		0.889	76	0.023	pCi/g
CX37-009	748801.61	2087373.332	0.1	0.3	Plutonium-239/240		5.069	50	0.066	pCi/g
CX37-009	748801.61	2087373.332	0.1	0.3	Uranium-235		0.187	8	0.094	pCi/g
CX37-009	748801.61	2087373.332	0.1	0.3	Uranium-238		2.250	351	2.000	pCi/g
CX37-010	748904.364	2087493.415	0.6	0.8	Plutonium-239/240		3.275	50	0.020	pCi/g
CX37-012	748866.781	2087400.737	0.3	0.5	Americium-241		2.341	76	0.023	pCi/g
CX37-012	748866.781	2087400.737	0.3	0.5	Plutonium-239/240		13.344	50	0.066	pCi/g
CX37-012	748866.781	2087400.737	0.3	0.5	Uranium-235		0.230	8	0.094	pCi/g
CX37-013	748847.987	2087354.383	0.1	0.3	Americium-241		4.935	76	0.023	pCi/g
CX37-013	748847.987	2087354.383	0.1	0.3	Plutonium-239/240		28.130	50	0.066	pCi/g
CX37-014	748950.767	2087474.585	0.3	0.5	Americium-241		4.529	76	0.023	pCi/g
CX37-014	748950.767	2087474.585	0.3	0.5	Plutonium-239/240		25.815	50	0.066	pCi/g
CX37-014	748950.767	2087474.585	0.3	0.5	Uranium-235		0.146	8	0.094	pCi/g
CX37-015	748931.978	2087428.318	0.1	0.3	Americium-241		5.070	76	0.023	pCi/g
CX37-015	748931.978	2087428.318	0.1	0.3	Plutonium-239/240		28.899	50	0.066	pCi/g
CX37-016	748913.012	2087381.974	0.8	1.0	Plutonium-239/240		3.285	50	0.020	pCi/g
CX37-017	748959.554	2087363.209	0.3	0.5	Americium-241		3.395	76	0.023	pCi/g
CX37-017	748959.554	2087363.209	0.3	0.5	Plutonium-239/240		19.352	50	0.066	pCi/g
CX37-018	748885.597	2087447.148	0.5	0.7	Plutonium-239/240		10.596	50	0.020	pCi/g
CX38-001	748969.472	2087520.869	0.1	0.3	Americium-241		2.116	76	0.023	pCi/g
CX38-001	748969.472	2087520.869	0.1	0.3	Plutonium-239/240		12.061	50	0.066	pCi/g
CX38-001	748969.472	2087520.869	0.1	0.3	Uranium-234		4.296	300	2.253	pCi/g
CX38-001	748969.472	2087520.869	0.1	0.3	Uranium-235		0.158	8	0.094	pCi/g
CX38-001	748969.472	2087520.869	0.1	0.3	Uranium-238		4.296	351	2.000	pCi/g
CX38-002	749015.875	2087502.113	0.5	0.7	Plutonium-239/240		27.500	50	0.020	pCi/g
CX38-003	748997.071	2087455.837	0.4	0.6	Plutonium-239/240		11.605	50	0.020	pCi/g
CX38-004	748978.273	2087409.63	0.1	0.3	Americium-241		6.090	76	0.023	pCi/g
CX38-004	748978.273	2087409.63	0.1	0.3	Plutonium-239/240		34.713	50	0.066	pCi/g
CX38-005	749080.968	2087529.621	0.5	0.7	Plutonium-239/240		4.415	50	0.020	pCi/g

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Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CX38-006	749062.207	2087483.503	0.3	0.5	Americium-241		2.911	76	0.023	pCi/g
CX38-006	749062.207	2087483.503	0.3	0.5	Plutonium-239/240		16.593	50	0.066	pCi/g
CX38-006	749062.207	2087483.503	0.3	0.5	Uranium-235		0.131	8	0.094	pCi/g
CX38-007	749043.483	2087437.122	0.5	0.7	Plutonium-239/240		3.968	50	0.020	pCi/g
CX38-008	749024.607	2087390.691	0.3	0.5	Americium-241		5.370	76	0.023	pCi/g
CX38-008	749024.607	2087390.691	0.3	0.5	Plutonium-239/240		33.600	50	0.066	pCi/g
CX38-008	749024.607	2087390.691	0.3	0.5	Uranium-235		0.182	8	0.094	pCi/g
CX38-009	749005.749	2087344.402	0.8	1.0	Plutonium-239/240		3.870	50	0.020	pCi/g
CX38-010	749108.405	2087464.583	0.1	0.3	Americium-241		3.221	76	0.023	pCi/g
CX38-010	749108.405	2087464.583	0.1	0.3	Plutonium-239/240		18.360	50	0.066	pCi/g
CX38-010	749108.405	2087464.583	0.1	0.3	Uranium-235		0.214	8	0.094	pCi/g
CX38-010	749108.405	2087464.583	0.1	0.3	Uranium-238		2.119	351	2.000	pCi/g
CX38-011	749089.718	2087418.195	0.1	0.3	Americium-241		6.842	76	0.023	pCi/g
CX38-011	749089.718	2087418.195	0.1	0.3	Plutonium-239/240		38.999	50	0.066	pCi/g
CX38-011	749089.718	2087418.195	0.1	0.3	Uranium-235		0.138	8	0.094	pCi/g
CX38-012	749070.992	2087371.793	0.7	0.9	Plutonium-239/240		17.870	50	0.020	pCi/g
CX38-013	749154.864	2087445.84	0.1	0.3	Plutonium-239/240	U	4.745	50	0.066	pCi/g
CX38-013	749154.864	2087445.84	0.1	0.3	Uranium-234		4.464	300	2.253	pCi/g
CX38-013	749154.864	2087445.84	0.1	0.3	Uranium-235		0.263	8	0.094	pCi/g
CX38-013	749154.864	2087445.84	0.1	0.3	Uranium-238		4.464	351	2.000	pCi/g
CX38-014	749136.023	2087399.439	0.3	0.5	Americium-241		0.967	76	0.023	pCi/g
CX38-014	749136.023	2087399.439	0.3	0.5	Plutonium-239/240		5.512	50	0.066	pCi/g
CX38-014	749136.023	2087399.439	0.3	0.5	Uranium-235		0.119	8	0.094	pCi/g
CX38-015	749117.243	2087353.033	0.9	1.1	Plutonium-239/240		11.423	50	0.020	pCi/g
CX39-001	749173.648	2087492.043	0.2	0.4	Americium-241		0.627	76	0.023	pCi/g
CX39-001	749173.648	2087492.043	0.2	0.4	Plutonium-239/240		3.460	50	0.066	pCi/g
CX39-001	749173.648	2087492.043	0.2	0.4	Uranium-238		2.185	351	2.000	pCi/g
CX39-002	749238.824	2087519.563	0.3	0.5	Americium-241		1.408	76	0.023	pCi/g
CX39-002	749238.824	2087519.563	0.3	0.5	Plutonium-239/240		8.026	50	0.066	pCi/g
CX39-003	749220.012	2087473.199	0.1	0.3	Americium-241		1.928	76	0.023	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CX39-003	749220.012	2087473.199	0.1	0.3	Plutonium-239/240		10.990	50	0.066	pCi/g
CX39-003	749220.012	2087473.199	0.1	0.3	Uranium-234		4.388	300	2.253	pCi/g
CX39-003	749220.012	2087473.199	0.1	0.3	Uranium-235		0.269	8	0.094	pCi/g
CX39-003	749220.012	2087473.199	0.1	0.3	Uranium-238		4.388	351	2.000	pCi/g
CX39-004	749201.241	2087426.953	0.1	0.3	Americium-241		0.624	76	0.023	pCi/g
CX39-004	749201.241	2087426.953	0.1	0.3	Plutonium-239/240		3.559	50	0.066	pCi/g
CX39-004	749201.241	2087426.953	0.1	0.3	Uranium-234		5.254	300	2.253	pCi/g
CX39-004	749201.241	2087426.953	0.1	0.3	Uranium-235		0.321	8	0.094	pCi/g
CX39-004	749201.241	2087426.953	0.1	0.3	Uranium-238		5.254	351	2.000	pCi/g
CX39-005	749182.387	2087380.646	0.1	0.3	Americium-241		0.206	76	0.023	pCi/g
CX39-005	749182.387	2087380.646	0.1	0.3	Plutonium-239/240		0.298	50	0.066	pCi/g
CX39-005	749182.387	2087380.646	0.1	0.3	Uranium-235		0.264	8	0.094	pCi/g
CX39-006	749285.074	2087500.738	0.7	0.9	Plutonium-239/240		19.243	50	0.020	pCi/g
CX39-007	749266.285	2087454.49	0.2	0.4	Americium-241		0.654	76	0.023	pCi/g
CX39-007	749266.285	2087454.49	0.2	0.4	Plutonium-239/240		3.729	50	0.066	pCi/g
CX39-007	749266.285	2087454.49	0.2	0.4	Uranium-235		0.172	8	0.094	pCi/g
CX39-008	749247.551	2087407.996	0.2	0.4	Americium-241		6.482	76	0.023	pCi/g
CX39-008	749247.551	2087407.996	0.2	0.4	Plutonium-239/240		36.947	50	0.066	pCi/g
CX39-008	749247.551	2087407.996	0.2	0.4	Uranium-235		0.117	8	0.094	pCi/g
CX39-009	749228.632	2087361.723	0.6	0.8	Plutonium-239/240	U	2.183	50	0.020	pCi/g
CX39-009	749228.632	2087361.723	0.6	0.8	Uranium-234		3.336	300	2.640	pCi/g
CX39-009	749228.632	2087361.723	0.6	0.8	Uranium-235		0.186	8	0.120	pCi/g
CX39-009	749228.632	2087361.723	0.6	0.8	Uranium-238		3.336	351	1.490	pCi/g
CX39-010	749312.62	2087435.562	0.4	0.6	Plutonium-239/240		5.723	50	0.020	pCi/g
CX39-011	749293.936	2087389.289	0.3	0.5	Americium-241		1.903	76	0.023	pCi/g
CX39-011	749293.936	2087389.289	0.3	0.5	Plutonium-239/240		10.847	50	0.066	pCi/g
CX39-011	749293.936	2087389.289	0.3	0.5	Uranium-235		0.139	8	0.094	pCi/g
CX39-012	749275.084	2087342.908	0.4	0.6	Plutonium-239/240		22.435	50	0.020	pCi/g
CX39-013	749358.928	2087416.778	0.2	0.4	Americium-241		1.892	76	0.023	pCi/g
CX39-013	749358.928	2087416.778	0.2	0.4	Plutonium-239/240		10.784	50	0.066	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CX39-013	749358.928	2087416.778	0.2	0.4	Uranium-235		0.152	8	0.094	pCi/g
CX39-014	749340.095	2087370.663	0.5	0.7	Plutonium-239/240		7.342	50	0.020	pCi/g
CX40-012	749386.582	2087351.565	0.1	0.3	Americium-241		3.230	76	0.023	pCi/g
CX40-012	749386.582	2087351.565	0.1	0.3	Plutonium-239/240		18.411	50	0.066	pCi/g
CX40-012	749386.582	2087351.565	0.1	0.3	Uranium-234		3.437	300	2.253	pCi/g
CX40-012	749386.582	2087351.565	0.1	0.3	Uranium-235		0.207	8	0.094	pCi/g
CX40-012	749386.582	2087351.565	0.1	0.3	Uranium-238		3.437	351	2.000	pCi/g
CX40-014	749470.395	2087425.494	0.2	0.4	Americium-241		7.679	76	0.023	pCi/g
CX40-014	749470.395	2087425.494	0.2	0.4	Plutonium-239/240		43.770	50	0.066	pCi/g
CX40-014	749470.395	2087425.494	0.2	0.4	Uranium-235		0.164	8	0.094	pCi/g
CY37-004	748923.275	2087539.701	0.3	0.5	Americium-241		2.508	76	0.023	pCi/g
CY37-004	748923.275	2087539.701	0.3	0.5	Plutonium-239/240		14.296	50	0.066	pCi/g
CY37-004	748923.275	2087539.701	0.3	0.5	Uranium-234		5.796	300	2.253	pCi/g
CY37-004	748923.275	2087539.701	0.3	0.5	Uranium-235		0.248	8	0.094	pCi/g
CY37-004	748923.275	2087539.701	0.3	0.5	Uranium-238		5.796	351	2.000	pCi/g
CY38-001	749146.11	2087557.243	0.1	0.3	Americium-241		1.927	76	0.023	pCi/g
CY38-001	749146.11	2087557.243	0.1	0.3	Plutonium-239/240		10.984	50	0.066	pCi/g
CY38-001	749146.11	2087557.243	0.1	0.3	Uranium-234		4.003	300	2.253	pCi/g
CY38-001	749146.11	2087557.243	0.1	0.3	Uranium-235		0.233	8	0.094	pCi/g
CY38-001	749146.11	2087557.243	0.1	0.3	Uranium-238		4.003	351	2.000	pCi/g
CY39-002	749192.442	2087538.29	0.3	0.5	Americium-241		1.507	76	0.023	pCi/g
CY39-002	749192.442	2087538.29	0.3	0.5	Plutonium-239/240		8.590	50	0.066	pCi/g
CY39-002	749192.442	2087538.29	0.3	0.5	Uranium-234		4.352	300	2.253	pCi/g
CY39-002	749192.442	2087538.29	0.3	0.5	Uranium-235		0.186	8	0.094	pCi/g
CY39-002	749192.442	2087538.29	0.3	0.5	Uranium-238		4.352	351	2.000	pCi/g
CY39-003	749257.541	2087565.74	0.3	0.5	Americium-241		1.451	76	0.023	pCi/g
CY39-003	749257.541	2087565.74	0.3	0.5	Plutonium-239/240		8.271	50	0.066	pCi/g
CY39-003	749257.541	2087565.74	0.3	0.5	Uranium-234		5.485	300	2.253	pCi/g
CY39-003	749257.541	2087565.74	0.3	0.5	Uranium-235		0.282	8	0.094	pCi/g
CY39-003	749257.541	2087565.74	0.3	0.5	Uranium-238		5.485	351	2.000	pCi/g

Location Code	Latitude	Longitude	Start Depth	End Depth	Analyte	D	Result	WRW AL	Bkg	Units
CY39-004	749304.062	2087547.076	0.2	0.4	Americium-241		3.051	76	0.023	pCi/g
CY39-004	749304.062	2087547.076	0.2	0.4	Plutonium-239/240		17.391	50	0.066	pCi/g
CY39-004	749304.062	2087547.076	0.2	0.4	Uranium-234		3.515	300	2.253	pCi/g
CY39-004	749304.062	2087547.076	0.2	0.4	Uranium-235		0.168	8	0.094	pCi/g
CY39-004	749304.062	2087547.076	0.2	0.4	Uranium-238		3.515	351	2.000	pCi/g
CY40-013	749500.364	2087591.228	0.6	0.8	Plutonium-239/240		2.022	50	0.020	pCi/g
CY40-014	749469.182	2087607.838	0.3	0.5	Americium-241		1.069	76	0.023	pCi/g
CY40-014	749469.182	2087607.838	0.3	0.5	Plutonium-239/240		3.210	50	0.066	pCi/g
CY40-014	749469.182	2087607.838	0.3	0.5	Uranium-235		0.154	8	0.094	pCi/g
CY40-015	749467.666	2087708.642	0.3	0.5	Americium-241		1.511	76	0.023	pCi/g
CY40-015	749467.666	2087708.642	0.3	0.5	Plutonium-239/240		8.613	50	0.066	pCi/g
CY40-015	749467.666	2087708.642	0.3	0.5	Uranium-235		0.139	8	0.094	pCi/g

Table 3
IHSS 900-155 Confirmation Sampling SORs

Location Code	Start Depth	End Depth	SOR
CK33-000	0.2	0.4	0.15
CK33-001	0.1	0.3	0.12
CN37-014	1.5	2	0.44
CN37-015	1	1.5	0.06
CN37-016	0.5	1.5	0.17
CN37-017	0.9	1.4	0.08
CN38-024	0.8	1.3	0.05
CN38-025	0.8	1.3	0.14
CN38-026	0.9	1.4	0.10
CN38-027	1	1.5	0.19
CN38-028	1	1.5	0.05
CN39-008	0	0.5	0.09
CN39-009	0.5	1	0.14
CN39-010	0.6	1.1	0.05
CN40-002	0	0.5	0.07
CO35-001	0.9	1.1	0.07
CO36-013	0.1	0.3	0.57
CO36-014	0.1	0.3	0.32
CO36-015	0.3	0.5	0.24
CO36-016	0.3	0.5	0.30
CO37-027	0.5	1	0.11
CO37-029	0.5	1	0.02
CO37-031	0.5	1	0.07
CO37-033	1	1.5	0.08
CO37-034	1	1.5	0.62
CO37-037	0.9	1.4	0.08
CO37-038	1.7	2.2	0.15
CO37-039	0.8	1.3	0.13
CO37-040	0.5	1	0.02
CO37-044	1.2	1.7	0.15
CO37-045	1.3	1.8	0.22
CO37-046	1.1	1.6	0.09
CO37-051	0.5	0.6	0.14
CO37-054	1	1.1	0.18
CO37-055	0.5	0.6	0.45
CO37-067	1	1.2	0.20
CO37-068	0.1	0.3	0.05
CO38-066	0.5	1	0.16
CO38-067	0.5	1	0.10
CO38-070	1	1.5	0.06
CO38-071	1.2	1.7	0.21
CO38-072	1.3	1.8	0.50
CO38-073	1	1.5	0.09
CO38-075	1.5	1.6	0.42

Location Code	Start Depth	End Depth	SOR
CO38-077	1.5	1.6	0.33
CO39-031	0.8	1.3	0.13
CO39-032	0.8	1.3	0.26
CO39-033	0.8	1.3	0.09
CO39-034	0.8	1.3	0.15
CO39-035	0.8	1.3	0.26
CO39-036	1	1.5	0.07
CO39-037	1.2	1.7	0.13
CO40-004	0	0.5	0.05
CO40-005	0	0.5	0.03
CO40-006	0	0.5	0.05
CO40-007	0	0.5	0.05
CO40-008	0	0.5	0.04
CP35-016	0.6	0.8	0.01
CP35-017	0.5	0.7	0.03
CP35-018	1.2	1.4	0.02
CP35-019	0.7	0.9	0.02
CP35-020	0.7	0.9	0.03
CP35-021	1.4	1.6	0.47
CP35-022	1.4	1.6	0.00
CP35-023	0.1	0.3	0.33
CP35-024	0.4	0.6	0.11
CP36-029	1.3	1.9	0.02
CP36-030	3.3	3.5	0.35
CP36-031	1.8	2	0.03
CP36-032	1.6	1.8	0.03
CP36-033	1.5	1.7	0.05
CP36-034	1.6	1.8	0.01
CP36-035	1	1.2	0.05
CP36-036	1.2	1.4	0.03
CP36-037	0.5	0.7	0.14
CP36-038	0.3	0.5	0.06
CP36-039	0.5	0.7	0.12
CP36-040	0.5	0.7	0.36
CP36-041	0.3	0.5	0.36
CP36-042	1.3	1.5	0.05
CP37-046	1.5	1.6	0.04
CP37-047	1	1.1	0.12
CP37-048	1	1.1	0.25
CP37-049	1.5	1.6	0.06
CP37-050	0.5	0.6	0.74
CP37-051	0.5	0.6	0.09
CP37-052	0.5	0.6	0.09
CP37-053	0.5	0.6	0.20
CP37-067	0.3	0.5	0.38
CP37-069	1	1.2	0.15

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Location Code	Start Depth	End Depth	SOR
CP37-071	0.7	0.9	0.04
CP39-040	0.8	1.3	0.17
CP39-041	0.5	1	0.10
CP39-042	0.5	1	0.09
CP39-043	0.3	0.8	0.58
CP39-048	0	0.3	0.06
CP39-049	0	0.3	0.07
CP40-004-01	0	0.5	0.05
CP40-006	0	0.5	0.42
CP40-007	0	0.5	0.11
CP40-008	0	0.5	0.06
CP40-009	0	0.5	0.12
CP40-010	0	0.5	0.24
CP40-014	0.5	0.7	0.06
CP40-015	0.5	0.7	0.06
CQ35-026	0.2	0.4	0.01
CQ35-027	0.5	0.7	0.09
CQ35-028	0.8	1	0.01
CQ35-029	0.4	0.6	0.07
CQ35-030	0.8	1	0.16
CQ35-031	0.5	0.7	0.02
CQ35-032	0.8	1	0.03
CQ35-033	0.7	0.9	0.22
CQ35-034	0.9	1.1	0.02
CQ35-035	0.1	0.3	0.30
CQ35-040	0.6	0.8	0.08
CQ36-027	1	1.2	0.01
CQ36-028	0.4	0.6	0.43
CQ36-029	0.9	1.1	0.28
CQ36-030	0.5	0.7	0.01
CQ36-031	1	1.2	0.06
CQ36-032	0.8	1	0.34
CQ36-033	0.5	0.7	0.04
CQ36-034	0.5	0.7	0.53
CQ36-035	1.5	1.7	0.02
CQ36-036	0.5	0.7	0.03
CQ36-037	0.5	0.7	0.37
CQ36-038	0.4	0.6	0.52
CQ36-039	1	1.2	0.01
CQ36-040	1.9	2.1	0.11
CQ36-041	1.3	1.5	0.02
CQ36-042	2.5	2.7	0.03
CQ36-043	0.5	0.7	0.25
CQ36-044	5	5.2	0.05
CQ36-045	0.7	0.9	0.28
CQ36-046	1.8	2	0.04

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Location Code	Start Depth	End Depth	SOR
CQ36-047	2.3	2.5	0.03
CQ36-048	0.5	0.7	0.48
CQ36-049	0.5	0.7	0.02
CQ36-050	1.7	1.9	0.04
CQ36-051	0.6	0.8	0.05
CQ37-030	0.5	0.6	0.45
CQ37-031	0.8	0.9	0.47
CQ37-032	0.8	0.9	0.18
CQ37-033	0.7	0.9	0.11
CQ37-034	1.3	1.5	0.07
CQ37-035	0.7	0.9	0.06
CQ37-036	0.5	0.6	0.14
CQ37-037	1.3	1.4	0.16
CQ37-038	1	1.1	0.47
CQ37-039	1	1.1	0.16
CQ37-040	1	1.1	0.04
CQ37-041	0.8	0.9	0.16
CQ37-042	0.8	0.9	0.60
CQ37-043	0.8	0.9	0.03
CQ37-044	0.6	0.7	0.08
CQ37-045	0.8	0.9	0.59
CQ37-046	1.5	1.6	0.13
CQ37-047	1	1.1	0.28
CQ37-070	0.5	0.7	0.19
CQ37-071	1	1.2	0.07
CQ37-072	1	1.2	0.03
CQ37-073	1.5	1.7	0.02
CQ37-074	0.8	1	0.02
CQ37-075	0.9	1.1	0.00
CQ38-030	2	2.2	0.07
CQ38-031	1.5	1.8	0.22
CQ38-032	0.8	1.1	0.22
CQ38-033	0.5	0.8	0.06
CQ38-034	1.3	1.4	0.12
CQ38-035	1.3	1.4	0.26
CQ38-036	1	1.2	0.12
CQ38-037	0.8	0.9	0.30
CQ38-038	1	1.1	0.35
CQ38-039	2.1	2.2	0.18
CQ38-040	1.1	1.3	0.36
CQ38-041	1.5	1.6	0.48
CQ38-042	1	1.1	0.40
CQ38-043	1.5	1.6	0.11
CQ38-044	1.5	1.6	0.48
CQ38-045	0.8	0.9	0.56
CQ38-065	0.5	0.7	0.07

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Location Code	Start Depth	End Depth	SOR
CQ39-017	0.6	1.1	0.28
CQ39-022	1.5	1.7	0.07
CQ39-023	0.5	0.6	0.19
CQ39-024	0.5	0.7	0.34
CQ39-025	0.5	0.7	0.02
CQ39-026	1.5	1.7	0.06
CQ39-027	2.3	2.5	0.14
CQ39-028	1.7	1.9	0.29
CQ39-029	1.5	1.7	0.22
CQ39-030	0.5	0.7	0.20
CQ39-031	0.5	0.6	0.32
CQ39-032	1.3	1.4	0.20
CQ39-033	0.5	0.8	0.29
CQ39-050	0	0.3	0.07
CQ39-051	0	0.3	0.13
CQ39-052	0	0.3	0.08
CQ39-053	0	0.3	0.05
CQ39-054	0	0.3	0.02
CQ40-003-01	0	0.5	0.05
CQ40-004	0	0.5	0.04
CQ40-005	0.0	0.5	0.01
CQ40-006	0	0.5	0.24
CR34-001	0.1	0.3	0.31
CR35-004	0.3	0.5	0.22
CR35-005	0.2	0.4	0.64
CR35-006	0.8	1	0.24
CR35-007	0.2	0.4	0.27
CR35-008	0.5	0.7	0.15
CR35-009	0.7	0.9	0.18
CR35-010	1.9	2.1	0.07
CR35-011	1	1.2	0.10
CR35-012	0.6	0.8	0.30
CR35-013	0.5	0.8	0.14
CR35-014	1.2	1.4	0.07
CR35-015	0.6	0.8	0.47
CR35-016	0.9	1.1	0.35
CR35-017	0.5	0.7	0.40
CR36-031	0.5	0.7	0.41
CR36-032	0.3	0.5	0.12
CR36-033	0.3	0.5	0.03
CR36-034	0.3	0.5	0.26
CR36-035	0.6	0.8	0.44
CR36-036	0.5	0.7	0.11
CR36-037	0.5	0.7	0.04
CR36-038	0.5	0.7	0.01
CR36-039	0.8	1.0	0.01

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Location Code	Start Depth	End Depth	SOR
CR36-040	0.8	1	0.04
CR36-041	0.5	0.7	0.12
CR36-042	0.9	1.1	0.08
CR36-043	1	1.2	0.03
CR36-044	0.8	1	0.04
CR36-045	0.5	0.7	0.46
CR36-046	0.5	0.7	0.08
CR36-047	0.8	1	0.31
CR36-048	0.5	0.7	0.05
CR36-049	0.9	1.1	0.02
CR36-050	0	1	0.15
CR36-051	1.3	1.5	0.27
CR37-020	0.8	0.9	0.29
CR37-021	0.8	0.9	0.17
CR37-022	0.8	0.9	0.27
CR37-023	1.5	1.7	0.02
CR37-024	1.5	1.7	0.02
CR37-025	1.5	1.7	0.02
CR37-026	0.5	0.7	0.13
CR37-027	1.5	1.7	0.15
CR37-028	0.8	0.9	0.21
CR37-029	0.8	1	0.14
CR37-030	0.8	1	0.14
CR37-031	0.8	0.9	0.14
CR37-032	0.8	0.9	0.13
CR37-033	0.5	0.8	0.18
CR37-034	0.5	0.6	0.14
CR37-035	0.8	0.9	0.08
CR37-036	0.5	0.6	0.52
CR37-037	0.8	0.9	0.46
CR37-038	0.5	0.6	0.04
CR37-039	0.5	0.8	0.44
CR37-064	0.5	0.7	0.07
CR37-065	0.5	0.7	0.08
CR37-066	0.5	0.7	0.05
CR37-067	0.5	0.7	0.29
CR38-020	0.5	0.6	0.16
CR38-021	1.7	1.8	0.05
CR38-022	0.8	1	0.12
CR38-023	0.8	0.9	0.37
CR38-024	0.8	0.9	0.18
CR38-025	0.8	0.9	0.55
CR38-026	1	1.1	0.20
CR38-027	1	1.1	0.34
CR38-028	1	1.2	0.12
CR38-029	1	1.1	0.41

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Location Code	Start Depth	End Depth	SOR
CR38-030	1	1.1	0.16
CR38-031	1	1.1	0.13
CR38-032	0.8	1	0.03
CR38-034	0.5	0.6	0.18
CR38-035	0.8	1	0.25
CR38-036	0.5	0.8	0.29
CR38-037	0.5	0.8	0.47
CR38-038	0.8	1	0.16
CR39-019	1.5	1.7	0.33
CR39-020	1	1.2	0.09
CR39-021	1	1.2	0.21
CR39-022	0.5	1	0.27
CR39-023	0.8	1	0.18
CR39-024	0.8	1	0.06
CR39-025	1	1.1	0.20
CR39-026	0.5	0.6	0.10
CR39-027	0.8	1	0.33
CR39-028	1	1.3	0.07
CR39-029	1.8	2	0.39
CR39-030	1	1.2	0.10
CR39-031	0.8	1	0.17
CR39-032	0.5	1	0.08
CR39-033	0.8	1	0.34
CR39-053	0	0.3	0.06
CR39-054	0	0.5	0.07
CR39-055	0	0.3	0.10
CR39-056	0	0.3	0.10
CR39-057	0	0.3	0.04
CR40-000	0	0.5	0.05
CR40-001	0	0.5	0.22
CR40-003	0	0.5	0.26
CR40-009	0	0.3	0.46
CR40-010	0	0.3	0.04
CR40-011	0.7	0.9	0.09
CR40-012	0.5	0.7	0.24
CR40-013	0.1	0.3	0.06
CR40-014	0.9	1.1	0.42
CS34-006	0.1	0.3	0.31
CS34-007	0.4	0.6	0.26
CS34-008	0.2	0.4	0.25
CS34-009	0.1	0.3	0.20
CS34-010	0.2	0.4	0.41
CS34-011	0.3	0.5	0.05
CS35-006	0.3	0.5	0.66
CS35-007	0.5	0.7	0.21
CS35-008	0	1.2	0.48

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Location Code	Start Depth	End Depth	SOR
CS35-009	0.5	0.7	0.11
CS35-010	0.2	0.4	0.46
CS35-011	0.1	0.3	0.46
CS35-012	0.7	0.9	0.10
CS35-013	0.5	0.7	0.18
CS35-014	0.5	0.7	0.32
CS35-015	1.2	1.4	0.44
CS35-016	0.6	0.8	0.33
CS35-017	0.8	1	0.18
CS35-018	0.6	0.8	0.33
CS35-019	0.4	0.6	0.16
CS35-020	0.3	0.5	0.07
CS36-002	1.8	2	0.19
CS36-003	0.9	1.1	0.04
CS36-004	0.3	0.5	0.64
CS36-004	0.8	1	0.09
CS36-005	1.2	1.4	0.01
CS36-006	0.5	0.7	0.37
CS36-007	0.6	0.8	0.13
CS36-008	0.7	0.9	0.13
CS36-009	0.5	0.7	0.15
CS36-010	0.6	0.8	0.12
CS36-011	0.5	0.7	0.69
CS36-012	0.3	0.5	0.16
CS36-013	0.2	0.4	0.30
CS36-014	0.7	0.9	0.05
CS36-015	1	1.2	0.04
CS36-016	0.8	1	0.02
CS36-017	0.5	0.7	0.44
CS37-016	0.5	0.6	0.15
CS37-017	0.8	0.9	0.07
CS37-018	1.2	1.4	0.20
CS37-019	0.5	0.8	0.18
CS37-020	0.5	0.6	0.44
CS37-021	1.5	1.6	0.17
CS37-022	0.5	0.6	0.27
CS37-023	0.8	0.9	0.22
CS37-024	0.8	0.9	0.07
CS37-025	1	1.1	0.19
CS37-026	0.5	0.6	0.35
CS37-027	0.5	0.6	0.40
CS37-041	0.5	0.7	0.26
CS37-042	0.5	0.8	0.14
CS37-043	0.8	1	0.44
CS37-044	0.4	0.6	0.33
CS37-045	1.3	1.5	0.03

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Location Code	Start Depth	End Depth	SOR
CS37-048	0.9	1.1	0.15
CS37-049	1	1.2	0.07
CS37-051	2.2	2.4	0.04
CS38-022	0.5	1	0.06
CS38-023	0.5	1	0.12
CS38-024	1	1.1	0.05
CS38-025	0.8	0.9	0.09
CS38-026	1.5	1.6	0.08
CS38-027	0.5	0.6	0.29
CS38-028	0.5	0.8	0.26
CS38-029	0.5	1	0.13
CS38-030	1	1.1	0.09
CS38-031	0.5	0.6	0.11
CS38-032	1	1.1	0.23
CS38-033	0.8	1	0.06
CS38-034	0.5	0.7	0.03
CS38-035	0.8	1.0	0.01
CS38-036	0.5	0.8	0.18
CS38-037	0.8	0.9	0.10
CS38-038	0.5	0.6	0.41
CS38-039	1	1.1	0.18
CS38-040	0.5	0.6	0.32
CS38-062	1.2	1.4	0.01
CS38-064	0.4	0.6	0.01
CS38-066	0.5	0.7	0.04
CS39-017	0.8	1	0.14
CS39-018	1	1.2	0.14
CS39-019	1	1.3	0.19
CS39-020	0.5	0.8	0.03
CS39-021	0.8	1	0.02
CS39-022	0.5	0.7	0.02
CS39-023	1	2	0.07
CS39-024	0.5	0.7	0.15
CS39-025	0.8	1.8	0.06
CS39-026	0.8	1	0.35
CS39-027	0.5	0.6	0.31
CS39-028	0.5	0.8	0.12
CS39-029	1	1.5	0.03
CS39-030	0.8	1	0.05
CS39-031	0.5	0.8	0.25
CS39-050	0	0.3	0.04
CS39-051	0	0.3	0.04
CS39-052	0	0.3	0.02
CS39-053	0	0.3	0.05
CS39-054	0	0.3	0.05
CS40-000	0	0.5	0.49

Location Code	Start Depth	End Depth	SOR
CS40-001	0	0.5	0.31
CS40-002	0	0.5	0.29
CS40-005	0	0.3	0.20
CS40-006	0	0.3	0.42
CS40-007	0.3	0.5	0.31
CT34-000	0.1	0.3	0.43
CT35-010	0.4	0.6	0.33
CT35-011	0.4	0.6	0.11
CT35-012	0.7	0.9	0.06
CT35-013	0.4	0.6	0.15
CT35-014	0.4	0.6	0.35
CT35-015	0.3	0.5	0.23
CT35-016	0.5	0.7	0.14
CT35-017	0.7	0.9	0.09
CT35-018	0.3	0.5	0.25
CT35-019	0.3	0.5	0.13
CT35-020	0.3	0.5	0.10
CT35-021	0.2	0.4	0.29
CT35-022	0.3	0.5	0.08
CT35-023	0.4	0.6	0.24
CT35-024	0.3	0.5	0.76
CT35-024	0.6	0.8	0.17
CT35-025	0.4	0.6	0.15
CT35-026	0.5	0.7	0.27
CT36-001	0.3	0.5	0.19
CT36-002	0.2	0.4	0.49
CT36-003	0.4	0.6	0.25
CT36-004	0.5	0.7	0.06
CT36-005	0.4	0.6	0.04
CT36-006	0.7	0.9	0.17
CT36-007	0.4	0.6	0.29
CT36-008	1.5	1.7	0.02
CT36-009	0.3	0.5	0.21
CT36-010	0.8	1	0.16
CT36-011	0.2	0.4	0.56
CT36-012	0.6	0.8	0.05
CT36-013	0.6	0.8	0.29
CT36-014	0.8	1	0.23
CT36-015	0.7	0.9	0.29
CT36-016	0.3	0.5	0.22
CT36-017	0.9	1.1	0.01
CT37-001	0.4	0.6	0.01
CT37-002	0.5	0.7	0.04
CT37-003	0.7	0.9	0.31
CT37-004	0.6	0.8	0.14
CT37-005	0.1	0.3	0.31

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Location Code	Start Depth	End Depth	SOR
CT37-006	1.4	1.6	0.02
CT37-007	0.5	0.7	0.22
CT37-008	1.2	1.4	0.02
CT37-009	0.9	1.1	0.20
CT37-010	0.8	1	0.08
CT37-011	0.6	0.8	0.12
CT37-012	0.5	0.7	0.06
CT37-013	1.1	1.3	0.04
CT37-014	1	1.2	0.07
CT37-015	1.7	1.9	0.02
CT37-016	1	1.2	0.23
CT38-022	1.1	1.2	0.08
CT38-023	0.9	1.1	0.12
CT38-024	1.6	1.8	0.08
CT38-025	1.1	1.3	0.10
CT38-026	1.2	1.4	0.02
CT38-027	0.5	0.7	0.06
CT38-028	0.6	0.8	0.50
CT38-029	0.6	0.8	0.42
CT38-030	0.7	0.9	0.29
CT38-031	0.1	0.3	0.34
CT38-032	0.6	0.8	0.23
CT38-033	0.6	0.8	0.31
CT38-034	0.8	1	0.43
CT38-035	1	1.2	0.13
CT38-036	0.7	0.9	0.10
CT39-010	0.9	1.1	0.32
CT39-011	0.6	0.8	0.22
CT39-012	0.5	0.7	0.06
CT39-013	0.4	0.6	0.50
CT39-014	0.7	0.9	0.12
CT39-015	0.4	0.6	0.27
CT39-016	0.4	0.6	0.08
CT39-017	0.5	0.7	0.02
CT39-018	0.5	0.7	0.06
CT39-019	0.3	0.5	0.06
CT40-006	0.4	0.6	0.03
CT40-007	0.7	0.9	0.26
CT40-008	1	1.2	0.41
CU34-000	0.3	0.5	0.10
CU35-013	0.6	0.8	0.07
CU35-014	0.3	0.5	0.23
CU35-015	0.4	0.6	0.09
CU35-016	0.5	0.7	0.06
CU35-017	0.6	0.8	0.04
CU35-018	0.4	0.6	0.20

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Location Code	Start Depth	End Depth	SOR
CU35-019	0.5	0.7	0.10
CU35-020	0.5	0.7	0.44
CU35-021	1.6	1.8	0.05
CU35-022	0.6	0.8	0.06
CU35-023	0.8	1	0.06
CU35-024	0.4	0.6	0.28
CU35-025	0.7	0.9	0.08
CU36-001	0.3	0.5	0.16
CU36-002	0.6	0.8	0.05
CU36-003	0.4	0.6	0.13
CU36-004	0.6	0.8	0.05
CU36-005	0.5	0.7	0.11
CU36-006	0.6	0.8	0.13
CU36-007	0.7	0.9	0.05
CU36-008	0.5	0.7	0.15
CU36-009	0.3	0.5	0.50
CU36-010	0.7	0.9	0.04
CU36-011	0.9	1.1	0.04
CU36-012	0.3	0.5	0.49
CU36-013	0.5	0.7	0.43
CU36-014	1.1	1.3	0.01
CU36-015	1	1.2	0.03
CU36-016	1.3	1.5	0.06
CU37-000	0.3	0.5	0.33
CU37-001	0.9	1.1	0.09
CU37-002	0.9	1.1	0.11
CU37-003	0.7	0.9	0.12
CU37-004	0.8	1	0.10
CU37-005	0.4	0.6	0.18
CU37-006	0.4	0.6	0.24
CU37-007	0.7	0.9	0.03
CU37-008	0.7	0.9	0.17
CU37-009	0.7	0.9	0.12
CU37-010	0.5	0.7	0.44
CU37-011	0.4	0.6	0.42
CU37-012	0.3	0.5	0.51
CU37-013	0.5	0.7	0.21
CU37-014	0.3	0.5	0.76
CU38-002	1.5	1.7	0.08
CU38-003	3	3.2	0.01
CU38-004	2.5	2.7	0.03
CU38-005	2.8	3	0.02
CU38-006	0.3	0.5	0.14
CU38-007	0.7	0.9	0.16
CU38-008	0.5	0.7	0.09
CU38-009	1.2	1.4	0.31

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Location Code	Start Depth	End Depth	SOR
CU38-010	0.6	0.8	0.09
CU38-011	0.7	0.9	0.25
CU38-012	0.8	1	0.20
CU38-013	0.2	0.4	0.13
CU38-014	0.2	0.4	0.10
CU38-015	0.1	0.3	0.34
CU38-016	0.3	0.5	0.53
CU38-017	0.4	0.6	0.29
CU38-018	1.1	1.3	0.04
CU39-012	1	1.2	0.11
CU39-013	0.4	0.6	0.32
CU39-014	1.3	1.5	0.06
CU39-015	1.5	1.7	0.02
CU39-016	0.5	0.7	0.09
CU39-017	0.8	1	0.16
CU39-018	0.8	1	0.11
CU39-019	0.8	1	0.02
CU39-020	1	1.2	0.18
CU39-021	0.7	0.9	0.05
CU39-022	1	1.2	0.09
CU39-023	0.4	0.6	0.02
CU39-024	0.2	0.5	0.06
CU39-025	0.3	0.5	0.17
CU40-004	0.4	0.6	0.03
CU40-005	0.6	0.8	0.03
CU40-006	0.4	0.6	0.14
CU40-007	0.3	0.5	0.02
CU40-008	0.6	0.8	0.12
CU40-009	0.4	0.6	0.04
CU40-010	0.5	0.7	0.08
CU40-011	0.6	0.8	0.50
CU40-012	0.4	0.6	0.13
CU40-013	0.5	0.7	0.14
CU40-014	0.4	0.6	0.03
CU40-015	0.4	0.6	0.06
CU40-016	0.5	0.7	0.07
CU40-017	1.1	1.4	0.18
CU40-018	1	1.3	0.67
CV35-009	0.3	0.5	0.32
CV35-010	0.1	0.3	0.38
CV36-017	0.1	0.3	0.48
CV36-018	0.5	0.7	0.20
CV36-019	0.1	0.3	0.28
CV36-024	0.2	0.4	0.10
CV37-000	1.1	1.3	0.07
CV37-001	0.5	0.7	0.05

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Location Code	Start Depth	End Depth	SOR
CV37-002	1.7	1.9	0.03
CV37-003	1.77	1.97	0.03
CV37-004	1.75	1.95	0.05
CV37-005	0.6	0.8	0.13
CV37-006	0.1	0.3	0.11
CV37-007	0.7	0.9	0.16
CV37-008	0.8	1.0	0.01
CV38-002	0.5	0.7	0.21
CV38-003	1	1.2	0.07
CV38-004	1.3	1.5	0.06
CV38-005	0.6	0.8	0.49
CV38-006	0.2	0.4	0.49
CV38-007	0.4	0.6	0.12
CV38-008	0.9	1.1	0.11
CV38-009	0.8	1	0.22
CV38-010	0.4	0.6	0.30
CV38-011	0.3	0.5	0.29
CV38-014	1.6	1.8	0.02
CV38-015	1	1.2	0.09
CV38-016	1.1	1.3	0.12
CV38-017	0.5	0.7	0.07
CV38-018	0.8	1	0.04
CV39-009	0.6	0.8	0.03
CV39-010	0.9	1.1	0.17
CV39-011	0.6	0.8	0.05
CV39-012	0.6	0.8	0.04
CV39-013	0.8	1	0.17
CV39-014	0.2	0.4	0.05
CV39-015	0.3	0.5	0.20
CV39-016	0.5	0.7	0.42
CV39-017	0.6	0.8	0.09
CV39-018	0.5	0.7	0.29
CV39-019	0.1	0.3	0.11
CV39-020	0.5	0.7	0.05
CV39-021	0.4	0.6	0.04
CV39-022	0.3	0.5	0.23
CV39-023	0.6	0.8	0.04
CV39-024	0.9	1.1	0.11
CV40-014	0.4	0.6	0.09
CV40-015	0.2	0.4	0.46
CV40-016	0.5	0.7	0.18
CV40-019	0.3	0.5	0.03
CV40-020	0.3	0.5	0.03
CV40-021	0.3	0.5	0.05
CV40-022	0.4	0.6	0.17
CV40-023	0.4	0.6	0.02

Location Code	Start Depth	End Depth	SOR
CV40-024	0.2	0.4	0.12
CV40-025	0.2	0.4	0.11
CV40-026	1.3	1.5	0.17
CV40-027	1.3	1.5	0.04
CV40-028	0.9	1.2	0.12
CW37-000	0.3	0.5	0.03
CW37-001	0.2	0.4	0.09
CW37-002	0.2	0.4	0.30
CW37-003	2.6	2.8	0.01
CW37-004	0.9	1.1	0.05
CW37-005	0.8	1	0.01
CW37-006	0.5	0.7	0.04
CW37-007	0.3	0.5	0.10
CW37-008	0.3	0.5	0.10
CW37-009	0.4	0.6	0.38
CW38-001	0.1	0.3	0.45
CW38-002	0.3	0.5	0.38
CW38-003	0.3	0.5	0.28
CW38-004	0.4	0.6	0.17
CW38-005	0.5	0.7	0.19
CW38-006	0.1	0.3	0.14
CW38-007	0.3	0.5	0.36
CW38-008	0.7	0.9	0.03
CW38-009	1.6	1.8	0.05
CW38-010	0.3	0.5	0.19
CW38-011	0.2	0.4	0.27
CW38-012	0.9	1.1	0.14
CW38-013	0.3	0.5	0.31
CW38-014	0.7	0.9	0.05
CW38-015	0.5	0.7	0.05
CW39-012	0.1	0.3	0.28
CW39-013	0.1	0.3	0.31
CW39-014	0.6	0.8	0.09
CW39-015	0.8	1	0.14
CW39-016	0.5	0.7	0.10
CW39-017	0.6	0.8	0.04
CW39-018	0.4	0.6	0.48
CW39-019	0.1	0.3	0.26
CW39-020	0.3	0.5	0.10
CW39-021	1.1	1.3	0.35
CW39-022	0.7	0.9	0.27
CW39-023	0.6	0.8	0.07
CW39-024	0.1	0.3	0.11
CW39-025	0.7	1	0.01
CW39-026	0.3	0.5	0.08
CW39-027	0.4	0.6	0.24

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Location Code	Start Depth	End Depth	SOR
CW39-028	0.5	0.7	0.10
CW40-009	0.3	0.5	0.19
CW40-010	0.3	0.5	0.19
CW40-011	0.4	0.6	0.10
CW40-012	0.4	0.6	0.17
CW40-013	0.4	0.6	0.24
CW40-014	0.2	0.4	0.23
CW40-015	0.1	0.3	0.49
CW40-016	0.3	0.5	0.01
CW40-017	0.2	0.4	0.20
CW40-018	0.4	0.7	0.14
CW40-019	0.5	0.7	0.16
CX36-006	0.4	0.6	0.08
CX36-007	0.1	0.3	0.94
CX37-003	0.1	0.3	0.33
CX37-004	0.3	0.5	0.35
CX37-005	0.4	0.6	0.29
CX37-006	0.6	0.8	0.20
CX37-007	0.4	0.6	0.17
CX37-008	0.7	0.9	0.05
CX37-009	0.1	0.3	0.09
CX37-010	0.6	0.8	0.06
CX37-012	0.3	0.5	0.17
CX37-013	0.1	0.3	0.31
CX37-014	0.3	0.5	0.30
CX37-015	0.1	0.3	0.32
CX37-016	0.8	1	0.04
CX37-017	0.3	0.5	0.21
CX37-018	0.5	0.7	0.15
CX38-001	0.1	0.3	0.18
CX38-002	0.5	0.7	0.84
CX38-003	0.4	0.6	0.13
CX38-004	0.1	0.3	0.38
CX38-005	0.5	0.7	0.05
CX38-006	0.3	0.5	0.20
CX38-007	0.5	0.7	0.07
CX38-008	0.3	0.5	0.84
CX38-009	0.8	1	0.05
CX38-010	0.1	0.3	0.23
CX38-011	0.1	0.3	0.44
CX38-012	0.7	0.9	0.26
CX38-013	0.1	0.3	0.06
CX38-014	0.3	0.5	0.08
CX38-015	0.9	1.1	0.19
CX39-001	0.2	0.4	0.09
CX39-002	0.3	0.5	0.09

Location Code	Start Depth	End Depth	SOR
CX39-003	0.1	0.3	0.18
CX39-004	0.1	0.3	0.11
CX39-005	0.1	0.3	0.04
CX39-006	0.7	0.9	0.26
CX39-007	0.2	0.4	0.06
CX39-008	0.2	0.4	0.42
CX39-009	0.6	0.8	0.04
CX39-010	0.4	0.6	0.08
CX39-011	0.3	0.5	0.14
CX39-012	0.4	0.6	0.30
CX39-013	0.2	0.4	0.14
CX39-014	0.5	0.7	0.09
CX40-012	0.1	0.3	0.25
CX40-014	0.2	0.4	0.50
CY37-004	0.3	0.5	0.22
CY38-001	0.1	0.3	0.17
CY39-002	0.3	0.5	0.14
CY39-003	0.3	0.5	0.16
CY39-004	0.2	0.4	0.23
CY40-013	0.6	0.8	0.02
CY40-014	0.3	0.5	0.13
CY40-015	0.3	0.5	0.11

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Table 4
IHSS 900-155 Summary Statistics

Surface Soil (0 to 3 feet)							
Analyte	Number of Samples	Detection Frequency	Average Concentration	Maximum Concentration	Background	WRW AL	Unit
Americium-241	646	0.83	2.69	55.56	0.02	76	pCi/g
Plutonium-239/240	645	0.84	15.19	316.69	0.02	50	pCi/g
Uranium-234	646	0.17	4.58	46.50	2.64	300	pCi/g
Uranium-235	646	0.56	0.20	2.73	0.12	8	pCi/g
Uranium-238	646	0.52	2.77	46.50	1.49	351	pCi/g
Subsurface Soil (Greater than 3 Feet)							
Analyte	Number of Samples	Detection Frequency	Average Concentration	Maximum Concentration	Background	WRW AL	Unit
Americium-241	256	0.87	10.25	585.60	0.02	76	pCi/g
Plutonium-239/240	258	0.88	67.18	3337.92	0.07	50	pCi/g
Uranium-234	256	0.30	4.12	9.87	2.25	300	pCi/g
Uranium-235	256	0.66	0.20	0.94	0.09	8	pCi/g
Uranium-238	256	0.36	3.80	9.87	2.00	351	pCi/g

Table 5
IHSS 900-140 Surface Soil Summary Statistics

Analyte	Number of Samples	Detection Frequency	Average Concentration	Maximum Concentration	Background	WRW AL	Unit
Aluminum	8	62.50%	28000.00	32000	16902.00	228000	mg/kg
Arsenic	8	12.50%	11.00	11	10.09	22.2	mg/kg
Barium	8	62.50%	190.00	260	141.26	26400	mg/kg
Beryllium	8	62.50%	1.26	1.4	0.97	921	mg/kg
Chromium	8	75.00%	26.33	31	16.99	268	mg/kg
Copper	8	50.00%	21.25	22	18.06	40900	mg/kg
Iron	8	62.50%	23800.00	26000	18037.00	307000	mg/kg
Lithium	8	87.50%	23.00	33	11.55	20400	mg/kg
Manganese	8	25.00%	420.00	430	365.08	3480	mg/kg
Nickel	8	75.00%	18.83	22	14.91	20400	mg/kg
Vanadium	8	50.00%	60.00	72	45.59	7150	mg/kg

Table 6
IHSS Group 900-11 Project Waste Information

Amount	Concrete	Soil
Mass (pounds)	855560	134338612
Volume (CY)	523	43676.839
LLW (CY)	523	43393.387
Low-level Mixed Waste (LLMW) (CY)	NA	283.45185
Transuranic-Mixed (TRM) (CY)	NA	NA

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Table 7
NLR Locations

Location Code	Start Depth (ft)	End Depth (ft)
IHSS 900-155		
BH92598	0	0.2
BH92598	0.5	1
BH92598	1	1.5
BH92598	1.5	2
BH92698	0	0.4
BH92698	0.4	0.9
BH93098	0	0.5
BH93198	0	0.5
BH93198	0.5	1
BH93198	1	1.5
BH93198	1.5	2
BH93398	0	0.5
BH93398	0.5	1
BH93498	0	0.5
BH93498	0.5	1
BH93598	0	0.4
BH93598	0.4	1
BH93598	0.8	1.2
BH93598	1.2	1.4
BH93698	0	0.5
BH93698	0.5	1
BH93698	1	1.5
BH93798	0	0.5
BH93798	0.5	0.9
BH93798	1.4	1.8
BH93898	0	0.5
BH93998	0	0.5
BH93998	0.5	1
BH94098	0	0.4
BH94198	0	0.4
BH94198	0.4	0.8
BH94198	0.8	1.2
BH94498	0	0.3
BH94498	0.3	0.8
BH94498	0.8	1.3
BH94598	0	0.5
BH94598	0.5	1
BH94598	1	1.5
BH94698	0	0.5
BH94698	0.5	0.9
BH94698	1.4	1.8
BH94798	0	0.5

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BH94898	0	0.5
BH94898	0	0.5
BH94898	0.5	1
BH94898	1	1.5
BH94898	1.5	2
BH94998	0	0.4
BH94998	0.4	0.8
BH94998	0.8	1.2
BH94998	1.2	1.7
BH95098	0	0.5
BH95098	0	0.5
BH95098	0.5	1
BH95098	1	1.5
BH95098	1.5	2
BH95298	0	0.5
BH95298	0.5	1
BH95298	1	1.5
BH95298	1.5	2
BH95398	0	0.5
BH95398	0	0.5
BH95398	0.5	1
BH95398	1	1.5
BH95398	1.5	2
BH95498	0	0.5
BH95498	0.5	0.9
BH95498	0.9	1.4
BH95598	0	0.5
BH95598	0.5	1
BH95598	1	1.5
BH95598	1.5	2
BH95698	0	0.5
BH95698	0	0.5
BH95698	0.5	1
BH95698	1	1.5
BH95698	1.5	2
BH95798	0	0.5
BH95798	0	0.5
BH95798	0.5	1
BH95798	1	1.5
BH95798	1.5	2
BH95898	0	0.5
BH95898	0.5	1
BH95898	1	1.5
BH97398	0	0.5
BH97398	0.5	1
BH97398	1	1.5
BH97498	0	0.5
BH97498	0.5	0.9

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BH97598	0	0.5
BH97598	0.5	1
BH97598	1	1.5
BH97598	1.5	2
CO38-066	0	0.5
CO38-067	0	0.5
CQ37-037	0.8	0.9
CQ38-015	0	0.5
CQ39-007	0	0.5
CQ39-008	0	0.5
CQ39-013	0	0.5
CQ39-016	0	0.5
CR37-008	0	0.3
CR37-009	0	0.3
CR37-009	0	0.3
CR38-033	0.7	0.8
CR38-039	0.8	1
CS37-002	0	0.5
CS37-003	0	0.5
CS37-008	0	0.5
CS37-009	0	0.5
CS37-010	0	0.5
CS38-003	0	0.5
CS38-036	0.5	0.8
CS39-002	0	0.3
CS39-002	0	0.3
CS39-003	0	0.3
CS39-004	0	0.5
CS39-005	0	0.5
CS39-006	0	0.5
CS39-013	0	0.5
CX37-011	0.8	1
IHSS 900-140		
CQ36-044	0	4
CQ36-068	0	4
CQ36-069	0	4
CQ36-070	0	4
CQ37-079	0	4
CQ37-080	0	4
CQ37-081	0	4
CR36-066	0	4
CR36-067	0	4
CR37-072	0	4
CR37-073	0	4
CR37-074	0	4
FOV0747	0	0

Table 8
LCS Summary

Test Method	Lab Batch	Laboratory Control Standards
ALPHA SPEC	255453	Yes
ALPHA SPEC	255458	Yes
ALPHA SPEC	257269	Yes
ALPHA SPEC	281635	Yes
ALPHA SPEC	283471	Yes
ALPHA SPEC	283570	Yes
ALPHA SPEC	284431	Yes
ALPHA SPEC	284432	Yes
ALPHA SPEC	284433	Yes
ALPHA SPEC	291819	Yes
ALPHA SPEC	291821	Yes
ALPHA SPEC	291822	Yes
ALPHA SPEC	3325244	Yes
ALPHA SPEC	3325246	Yes
ALPHA SPEC	3325248	Yes
ALPHA SPEC	3351162	Yes
ALPHA SPEC	3351171	Yes
ALPHA SPEC	3351176	Yes
ALPHA SPEC	3352467	Yes
ALPHA SPEC	3352470	Yes
ALPHA SPEC	3352471	Yes
ALPHA SPEC	3360117	Yes
ALPHA SPEC	3360118	Yes
ALPHA SPEC	3360119	Yes
ALPHA SPEC	357524	Yes
ALPHA SPEC	357526	Yes
ALPHA SPEC	357528	Yes
ALPHA SPEC	358198	Yes
ALPHA SPEC	358199	Yes
ALPHA SPEC	358203	Yes
ALPHA SPEC	358841	Yes
ALPHA SPEC	358844	Yes
ALPHA SPEC	361428	Yes
ALPHA SPEC	362799	Yes
ALPHA SPEC	362800	Yes
ALPHA SPEC	362801	Yes
ALPHA SPEC	365163	Yes
ALPHA SPEC	365165	Yes
ALPHA SPEC	365167	Yes
ALPHA SPEC	366445	Yes

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Test Method	Lab Batch	Laboratory Control Standards
ALPHA SPEC	366446	Yes
ALPHA SPEC	366447	Yes
ALPHA SPEC	4015374	Yes
ALPHA SPEC	4015379	Yes
ALPHA SPEC	4015383	Yes
ALPHA SPEC	4022402	Yes
ALPHA SPEC	4022510	Yes
ALPHA SPEC	4023143	Yes
ALPHA SPEC	4030439	Yes
ALPHA SPEC	4030441	Yes
ALPHA SPEC	4030443	Yes
ALPHA SPEC	4044435	Yes
ALPHA SPEC	4044441	Yes
ALPHA SPEC	4044445	Yes
ALPHA SPEC	4049241	Yes
ALPHA SPEC	4049249	Yes
ALPHA SPEC	4049250	Yes
ALPHA SPEC	4057380	Yes
ALPHA SPEC	4057391	Yes
ALPHA SPEC	4057393	Yes
ALPHA SPEC	4069164	Yes
ALPHA SPEC	4069167	Yes
ALPHA SPEC	4069170	Yes
ALPHA SPEC	4078178	Yes
ALPHA SPEC	4078182	Yes
ALPHA SPEC	4078184	Yes
ALPHA SPEC	4086409	Yes
ALPHA SPEC	4086419	Yes
ALPHA SPEC	4086433	Yes
ALPHA SPEC	4096482	Yes
ALPHA SPEC	4096487	Yes
ALPHA SPEC	4096489	Yes
ALPHA SPEC	4111247	Yes
ALPHA SPEC	4111253	Yes
ALPHA SPEC	4111262	Yes
ALPHA SPEC	4117265	Yes
ALPHA SPEC	4117267	Yes
ALPHA SPEC	4117272	Yes
ALPHA SPEC	4128362	Yes
ALPHA SPEC	4128367	Yes
ALPHA SPEC	4128371	Yes
ALPHA SPEC	4135104	Yes
ALPHA SPEC	4135107	Yes

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Test Method	Lab Batch	Laboratory Control Standards
ALPHA SPEC	4135110	Yes
ALPHA SPEC	4140363	Yes
ALPHA SPEC	4140366	Yes
ALPHA SPEC	4140368	Yes
ALPHA SPEC	4141496	Yes
ALPHA SPEC	4145214	Yes
ALPHA SPEC	4145219	Yes
ALPHA SPEC	4145222	Yes
ALPHA SPEC	4145236	Yes
ALPHA SPEC	4145242	Yes
ALPHA SPEC	4153616	Yes
ALPHA SPEC	4153622	Yes
ALPHA SPEC	4153629	Yes
ALPHA SPEC	4156483	Yes
ALPHA SPEC	4156492	Yes
ALPHA SPEC	4156496	Yes
ALPHA SPEC	4170346	Yes
ALPHA SPEC	4170349	Yes
ALPHA SPEC	4170353	Yes
ALPHA SPEC	4175400	Yes
ALPHA SPEC	4175408	Yes
ALPHA SPEC	4175411	Yes
ALPHA SPEC	4189010	Yes
ALPHA SPEC	4189011	Yes
ALPHA SPEC	4189012	Yes
ALPHA SPEC	4194609	Yes
ALPHA SPEC	4194613	Yes
ALPHA SPEC	4194615	Yes
ALPHA SPEC	4198424	Yes
ALPHA SPEC	4198431	Yes
ALPHA SPEC	4198454	Yes
ALPHA SPEC	4203462	Yes
ALPHA SPEC	4203463	Yes
ALPHA SPEC	4203468	Yes
ALPHA SPEC	4211368	Yes
ALPHA SPEC	4211370	Yes
ALPHA SPEC	4211371	Yes
ALPHA SPEC	4219290	Yes
ALPHA SPEC	4219299	Yes
ALPHA SPEC	4219306	Yes
ALPHA SPEC	4278618	Yes
ALPHA SPEC	4278620	Yes
ALPHA SPEC	4278623	Yes

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Test Method	Lab Batch	Laboratory Control Standards
ALPHA SPEC	4320296	Yes
ALPHA SPEC	4320297	Yes
ALPHA SPEC	4320299	Yes
SW-846 6010	4225543	Yes
SW-846 6010	4229299	Yes
SW-846 6010	4253594	Yes
SW-846 6010	4257377	Yes
SW-846 6010	4258134	Yes
SW-846 6010	4258566	Yes
SW-846 6010	4259583	Yes
SW-846 6010	4264486	Yes
SW-846 6010	4300177	Yes
SW-846 6010	4300495	Yes
SW-846 6010	4301638	Yes
SW-846 6010	4303432	Yes

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Table 9
LCS Evaluation Summary

Test Method Name	CAS No	Analyte	Min of Result	Max of Result	Result Unit
ALPHA SPEC	14596-10-2	Americium-241	94	109	%REC
ALPHA SPEC	10-12-8	Plutonium-239/240	90	102	%REC
ALPHA SPEC	7440-61-1	Uranium-238	85	118	%REC

Table 10
Field Blank Summary

Laboratory	CAS No	Analyte	Sample QC Code	Detected Result	Result Unit
EMXT	7429-90-5	Aluminum	RNS	38.7	ug/L
GEL	14596-10-2	Americium-241	RNS	0.00946	pCi/L
URS	14596-10-2	Americium-241	FB	0.169	pCi/g
GEL	11-08-5	Uranium-234	RNS	0.211	pCi/L
URS	15117-96-1	Uranium-235	FB	0.206	pCi/g
URS	15117-96-1	Uranium-235	RNS	0.201	pCi/g
URS	7440-61-1	Uranium-238	FB	3.39	pCi/g
URS	7440-61-1	Uranium-238	RNS	4.22	pCi/g

Field blank (EB = equipment, field = FB, rinse = RNS, trip = TB) for results greater than detection limits (not "U" qualified)

Table 11
Sample MS Evaluation Summary

Test Method Name	CAS	Analyte	Min of Result	Max of Result	Result Unit	# of Samples	# of Lab Batches
SW-846 6010	7429-90-5	Aluminum	2020	8960	%REC	3	3
SW-846 6010	7440-36-0	Antimony	33	59	%REC	3	3
SW-846 6010	7440-38-2	Arsenic	85	89	%REC	3	3
SW-846 6010	7440-39-3	Barium	75	106	%REC	3	3
SW-846 6010	7440-41-7	Beryllium	98	100	%REC	3	3
SW-846 6010	7440-43-9	Cadmium	86	90	%REC	3	3
SW-846 6010	7440-47-3	Chromium	92	151	%REC	3	3
SW-846 6010	7440-48-4	Cobalt	85	89	%REC	3	3
SW-846 6010	7440-50-8	Copper	88	98	%REC	3	3
SW-846 6010	7439-89-6	Iron	0	1540	%REC	3	3
SW-846 6010	7439-92-1	Lead	89	134	%REC	3	3
SW-846 6010	7439-93-2	Lithium	98	104	%REC	3	3
SW-846 6010	7439-96-5	Manganese	0	204	%REC	3	3
SW-846 6010	7439-97-6	Mercury	83	109	%REC	4	4
SW-846 6010	7439-98-7	Molybdenum	81	92	%REC	3	3
SW-846 6010	7440-02-0	Nickel	86	92	%REC	3	3
SW-846 6010	7782-49-2	Selenium	83	88	%REC	3	3
SW-846 6010	7440-22-4	Silver	87	99	%REC	3	3
SW-846 6010	7440-24-6	Strontium	93	97	%REC	3	3
SW-846 6010	7440-31-5	Tin	78	90	%REC	3	3
SW-846 6010	11-09-6	Uranium, Total	85	93	%REC	3	3
SW-846 6010	7440-62-2	Vanadium	91	149	%REC	3	3
SW-846 6010	7440-66-6	Zinc	90	97	%REC	3	3

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Table 12
Sample MSD Evaluation Summary

Test Method Name	CAS No	Analyte	Max of RPD
SW-846 6010	7429-90-5	Aluminum	64.66
SW-846 6010	7440-36-0	Antimony	12.61
SW-846 6010	7440-38-2	Arsenic	5.65
SW-846 6010	7440-39-3	Barium	22.49
SW-846 6010	7440-41-7	Beryllium	5.83
SW-846 6010	7440-43-9	Cadmium	3.31
SW-846 6010	7440-47-3	Chromium	12.24
SW-846 6010	7440-48-4	Cobalt	5.71
SW-846 6010	7440-50-8	Copper	14.74
SW-846 6010	7439-89-6	Iron	76.21
SW-846 6010	7439-92-1	Lead	45.98
SW-846 6010	7439-93-2	Lithium	5.61
SW-846 6010	7439-96-5	Manganese	113.47
SW-846 6010	7439-97-6	Mercury	10.00
SW-846 6010	7439-98-7	Molybdenum	4.82
SW-846 6010	7440-02-0	Nickel	8.89
SW-846 6010	7782-49-2	Selenium	3.35
SW-846 6010	7440-22-4	Silver	4.60
SW-846 6010	7440-24-6	Strontium	8.08
SW-846 6010	7440-31-5	Tin	5.00
SW-846 6010	11-09-6	Uranium, Total	4.40
SW-846 6010	7440-62-2	Vanadium	24.15
SW-846 6010	7440-66-6	Zinc	17.26

Table 13
Field Duplicate Sample Frequency Summary

Test Method Name	Real	Duplicate	% Duplicate Samples
ALPHA SPEC	124	30	24.19%
GAMMA SPECTROSCOPY	1051	63	5.99%
SW-846 6010	41	7	17.07%
SW-846 6200	54	4	7.41%

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Table 14
RPD Evaluation Summary

Lab Code	Test Method	Analyte	Max of Result RPD
ESTLDEN	ALPHA SPEC	Americium-241	88.15
GEL	ALPHA SPEC	Americium-241	102.04
GEL	ALPHA SPEC	Plutonium-239/240	126.94
ESTLDEN	ALPHA SPEC	Plutonium-239/240	120.53
GEL	ALPHA SPEC	Uranium-234	12.84
GEL	ALPHA SPEC	Uranium-238	43.86
ESTLDEN	ALPHA SPEC	Uranium-238	42.18
URS	GAMMA SPECTROSCOPY	Americium-241	106.93
ESTLDEN	SW-846 6010	Aluminum	33.33
ESTLDEN	SW-846 6010	Arsenic	77.78
ESTLDEN	SW-846 6010	Barium	19.05
ESTLDEN	SW-846 6010	Beryllium	16.75
ESTLDEN	SW-846 6010	Cadmium	0.00
ESTLDEN	SW-846 6010	Chromium	25.45
ESTLDEN	SW-846 6010	Cobalt	40.96
ESTLDEN	SW-846 6010	Copper	15.38
ESTLDEN	SW-846 6010	Iron	21.28
ESTLDEN	SW-846 6010	Lead	197.15
ESTLDEN	SW-846 6010	Lithium	40.00
ESTLDEN	SW-846 6010	Manganese	91.67
ESTLDEN	SW-846 6010	Mercury	54.12
ESTLDEN	SW-846 6010	Nickel	12.77
ESTLDEN	SW-846 6010	Strontium	40.00
ESTLDEN	SW-846 6010	Vanadium	40.00
ESTLDEN	SW-846 6010	Zinc	41.38
URS	SW-846 6200	Barium	7.92
URS	SW-846 6200	Cobalt	9.54
URS	SW-846 6200	Iron	7.86
URS	SW-846 6200	Manganese	9.52
URS	SW-846 6200	Nickel	7.75
URS	SW-846 6200	Strontium	4.76

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Table 15
Validation and Verification Summary

Validation Qualifier Code	Total of CAS Number	Alpha Spec	Gamma Spectroscopy	SW-846 6010	SW-846 6200
No V&V	65	65	0	0	0
I	10	0	10	0	0
J	122	0	0	122	0
J1	124	1	0	36	87
JB	0	0	0	0	0
JB1	0	0	0	0	0
R	1	1	0	0	0
R1	36	0	0	0	36
U	0	0	0	0	0
U1	0	0	0	0	0
UJ	55	0	0	55	0
UJ1	129	0	0	7	122
V	532	126	900	582	0
V1	3976	423	2257	141	781
Total	5050	616	3167	943	1026
Validated	710	127	900	759	0
% Validated	14.06%	20.62%	28.42%	80.49%	0.00%
Verified	4275	424	2267	184	1026
% Verified	84.65%	68.83%	71.58%	19.51%	100.00%
Rejected	37	1	0	0	36
% Rejected	0.73%	0.16%	0.00%	0.00%	3.51%

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**Appendix A
Project Photographs**

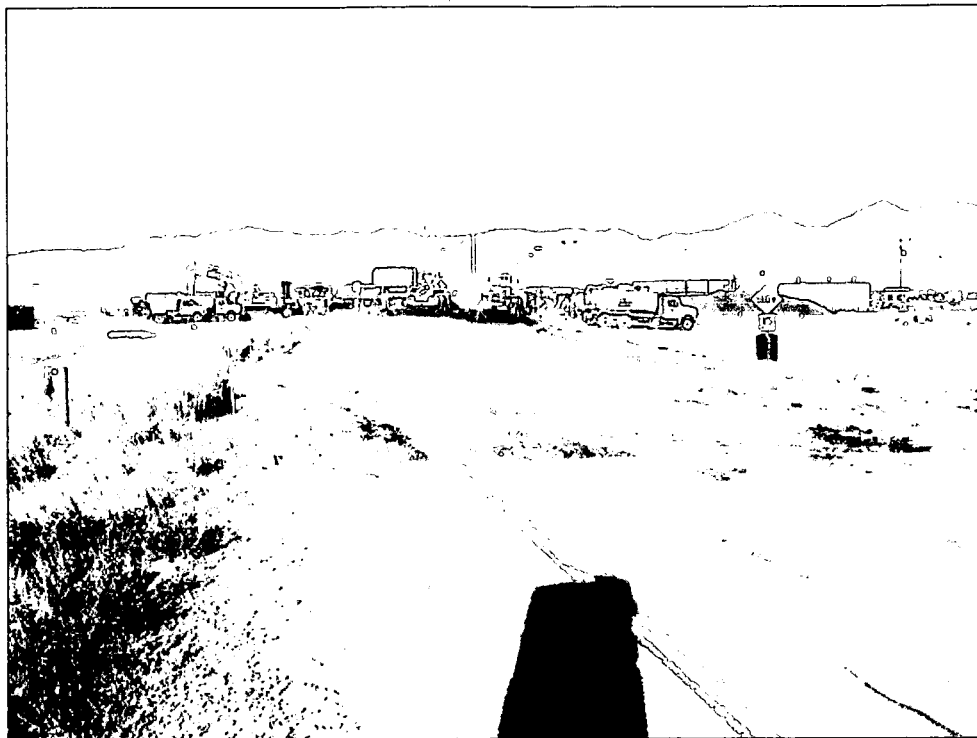
Best Available Copy



Cell Remediation



Remediated Cell



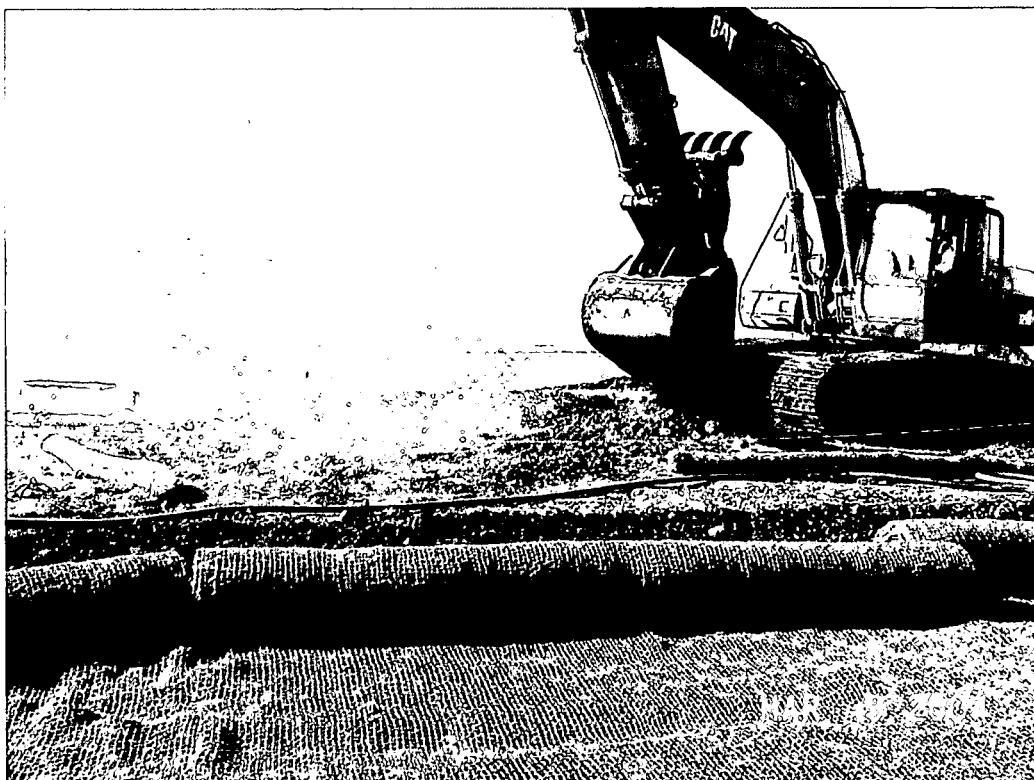
Remediation at Central Avenue



Remediation at Central Avenue



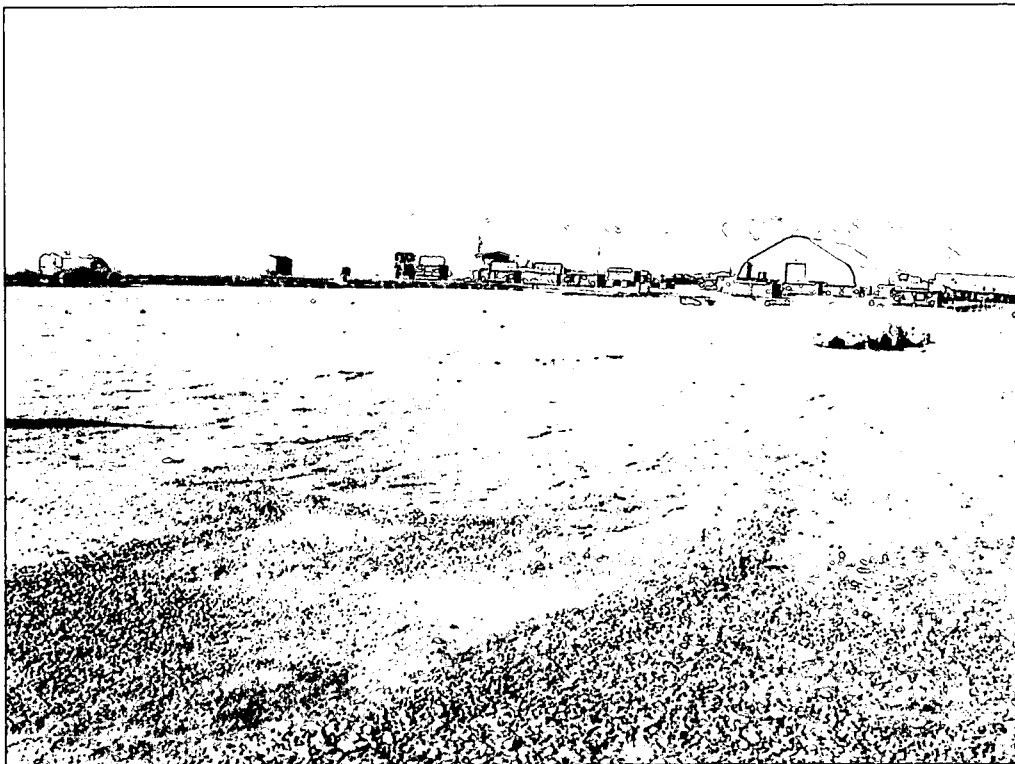
Soil in Intermodal



Dust Suppression



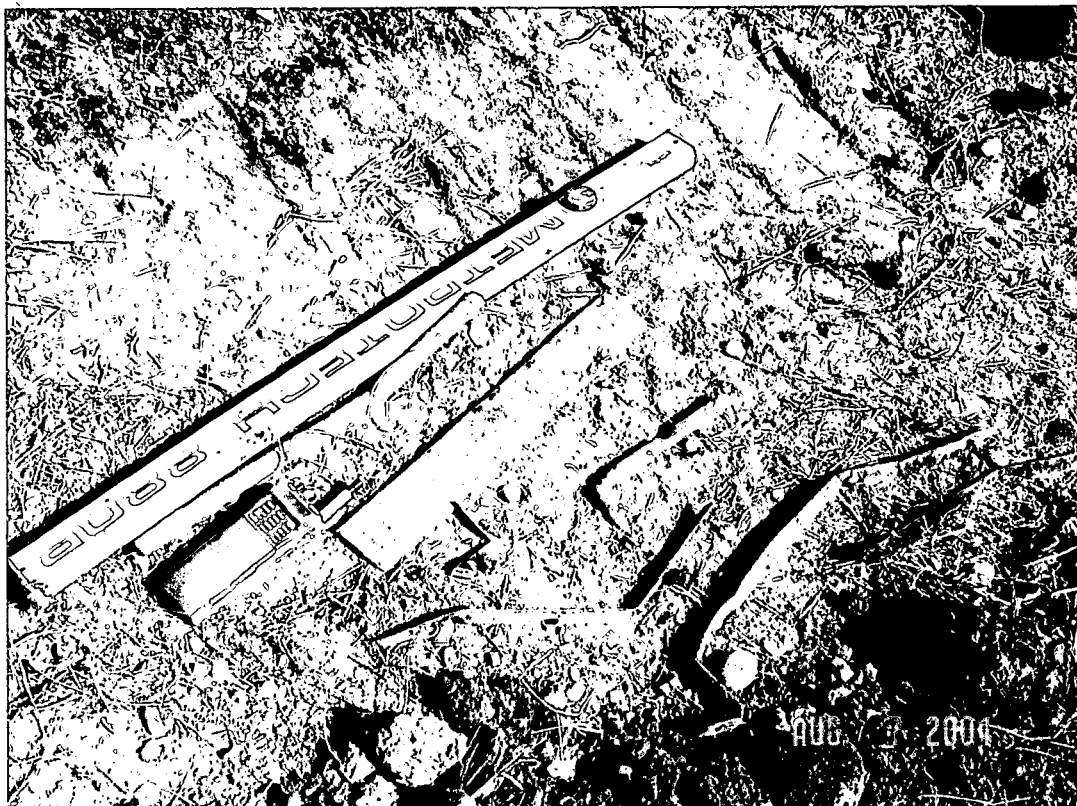
Erosion Control



903 Lip Area



IHSS 140 Trench



IHSS 140 Debris



**Appendix B
Correspondence**

Regulatory Contact Records

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 12/15/03 1500 hrs

Site Contact(s): Mike Keating, Jan Walstrom, Karen Wiemelt
Phone: 303.966.4815

Regulatory Contact: Gary Kleeman
Phone: 303.312.6246

Agency: U.S. E.P.A.

Purpose of Contact: Use consultative process to disposition remedial activities in specific grid cells in 903 Lip Area

Discussion

At a meeting at RFETS, the following was agreed to:

- Based on previous characterization data, grid cell A6 and C11 will be remediated and confirmation samples will be collected to verify soil activity is below 50 pCi/g Pu.
 - Based on pre-screen characterization data, grid cells G0 and S0 will be remediated and confirmation samples will be collected to verify soil activity is below 50 pCi/g Pu. Additional soil samples (composite) will be collected from 2 grid cells immediate north and northeast from each of these grid cells (see attached drawing).
 - Based on pre-screen soil samples being below 50 pCi/g Pu, no further remedial activities will be required in grid cells AA0-F0, H0-R0, T0-V0, A1-J1 and AA1-AA10 (see attached drawing).
 - Additional decisions on the disposition of the remaining grid cells around the perimeter of the 903 Pad will be made using the consultative process as data becomes available.
-

Contact Record Prepared By: Mike Keating

Required Distribution

S. Bell, RFFO	M. Keating, K-H RISS	A. Primrose, K-H RISS
J. Berardini, K-H	G. Kleeman, USEPA	T. Rehder, USEPA
L. Brooks, K-H ESS	D. Kruchek, CDPHE	S. Serreze, RISS
M. Broussard, K-H RISS	D. Mayo, K-H RISS	D. Shelton, K-H
L. Butler, K-H RISS	R. McCalister, DOE	C. Spreng, CDPHE
G. Carnival, K-H RISS	J. Mead, K-H ESS	S. Surovchak, RFFO
N. Castaneda, RFFO	S. Nesta, K-H RISS	K. Wiemelt, K-H RISS
C. Deck, K-H Legal	L. Norland, K-H RISS	C. Zahm, K-H
R. DiSalvo, RFFO	K. North, K-H ESS	
S. Gunderson, CDPHE	E. Pottorff, CDPHE	

Additional Distribution

(choose names as applicable):

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 1/26/2004/ 11:30 AM

Site Contact(s): Mike Keating
Phone: 303.966.4815

Regulatory Contact: Gary Kleeman
Phone: 303.312.6246

Agency: USEPA

Purpose of Contact: Review and approval of issues on 903 Lip project

Discussion

Mike Keating and Gary Kleeman met to review and discuss the following:

1. Analytical results for additional soil sampling performed north of road,
2. The results of the kriging process to determine the limits of remediation in the south inner lip area (south of the grid cell area currently being remediated).

Decisions and Agreements

1. The analytical results of the additional sampling showed cells R0', S1', T1', and U0' below 50 pCi/g Pu (calculated from gamma spectroscopy) and no remediation will be required in those grid cells. Approximately 1/2 of the cell Q0' (NW portion) is currently covered by an asphalt road and gravel shoulder area. The sample was collected from the SE portion. The analytical results of the SE portion of Q0' showed 56.9 pCi/g Pu and remediation will be performed in that portion of that cell.
2. After reviewing the map containing the results of the kriging for the southern portion of the inner lip area, EPA approved the limits of remediation as shown on the map (see attached kriging map). This approval will allow K-H to complete the remediation of this area by removing soils that exceed the action level of 50 pCi/g Pu within the limits of remediation as shown on the maps. The white space area near the center of the map shows a small area less than 50 pCi/g Pu within the 90 percent UCL boundary. This area would not require remediation. However, because this area is completely surrounded by soils greater than 50 pCi/g Pu, it will be remediated.
3. Confirmation sampling, as shown on the attached map, will demonstrate that the remedial objective has been met. The confirmation sampling will consist of soil samples collected from the upper 3-inches of soil at each one of the locations shown on the drawing. If the confirmation sample exceeds 50 pCi/g Pu (calculated), additional excavation and confirmation sampling will be implemented until the confirmation sample is less than 50 pCi/g Pu (calculated). A revised Buffer Zone SAP FY04 Addendum is being prepared that describes the remedial activities and confirmation sampling in the the southern portion of the inner lip area for EPA review and approval.
4. This approval is only applicable to the inner lip area. The outer lip area will be addressed in the 900-11 IM/IRA.

Contact Record Prepared By: Mike Keating

Required Distribution

S. Bell, RFFO

J. Berardini, K-H

L. Brooks, K-H ESS

M. Broussard, K-H RISS

M. Keating, K-H RISS

G. Kleeman, USEPA

D. Kruckek, CDPHE

D. Mayo, K-H RISS

A. Primrose, K-H RISS

T. Rehder, USEPA

S. Serreze, RISS

D. Shelton, K-H

Contact Record 8/27/03
Rev. 8/27/03

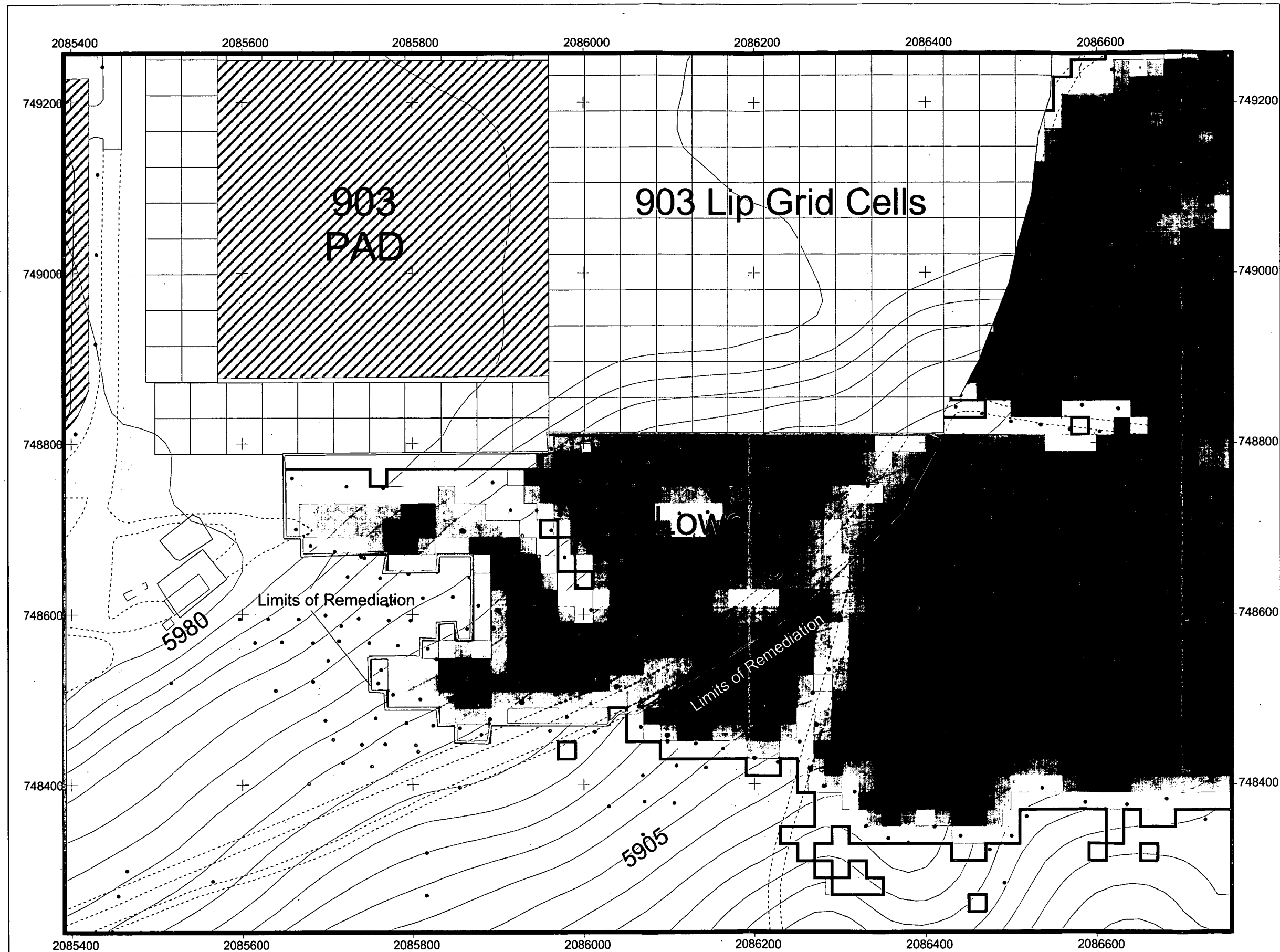
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, RFFO
C. Deck, K-H Legal
R. DiSalvo, RFFO
S. Gunderson, CDPHE

R. McCalister, DOE
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE

C. Spreng, CDPHE
S. Surovchak, RFFO
K. Wiemelt, K-H RISS
C. Zahm, K-H

Additional Distribution
(choose names as applicable):

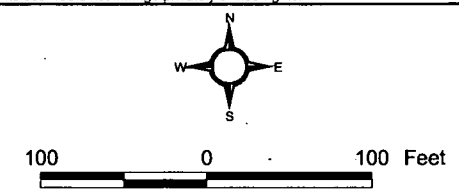
**Figure 4
Krig Output
with 5ft Contours**



- Paved roads
- Inner Lip Grid Cells
- Building**
- ▨ Demolished
- Standing
- - - Dirt roads
- 90 Percent Confidence Boundary
- Lower Inner Lip Boundary
- Actual Sample Results ≥ 50 pCi/g
- Actual Sample Results < 50 pCi/g
- 5 ft Contours

DRAFT

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Scale = 1: 2300
State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: Date: 01.27.04

RADMS

Prepared for:



File: W:\Projects\Fy2004\900-11_IMIRA\krig\krigmaps.apr

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 3/25/2004 13:30

Site Contact(s): Mike Keating
Phone: 303.966.4815

Regulatory Contact: Gary Kleeman
Phone: 303.312.6246

Agency: US EPA

Purpose of Contact: Finalize language in revised SAP for 903 Lip area

Discussion

Agreements:

1. Remediation work in the southern portion of the inner lip (kriging area) will be sequenced to minimize safety issues of personnel and heavy equipment working on sloped areas. This will typically include a down-slope or cross-slope work sequence.
2. Confirmation samples will be collected and analyzed on a daily basis.
3. Confirmation samples will be as shown on the Figure 5 in the revised SAP.
4. All confirmation sample points will be labeled for work tracking
5. Confirmation samples that exceed the 50 pCi/g Pu (calculated) will be re-excavated in a 42'x42' square area as shown on Figure 5 in the revised SAP. Confirmation samples immediately adjacent to the limits of remediation may consist of a partial 42'x42' square.

Contact Record Prepared By: Mike Keating

Required Distribution:

M. Aguilar, USEPA
S. Bell, DOE-RFFO
J. Berardini, K-H
B. Birk, DOE-RFFO
L. Brooks, K-H ESS
M. Broussard, K-H RISS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFFO
C. Deck, K-H Legal
S. Gunderson, CDPHE
M. Keating, K-H RISS

R. McCallister, DOE-RFFO
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE
A. Primrose, K-H RISS
R. Schassburger, DOE-RFFO
S. Serreze, K-H RISS
D. Shelton, K-H ESS
C. Spreng, CDPHE
S. Surovchak, DOE-RFFO

Additional Distribution:

G. Kleeman, USEPA
D. Kruchek, CDPHE
D. Mayo, K-H RISS

K. Wiemelt, K-H RISS
C. Zahm, K-H Legal

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 4/13/2004

Site Contact(s): Jan Walstrom
Phone: 303.966.5028

Regulatory Contact: Mark Aguilar
Phone: 720.320.6252

Agency: USEPA

Purpose of Contact: 903 Lip Project

Discussion

Due to recent safety developments regarding potential hazardous material disposal in the IHSS 140 area (inner lip), additional safety planning and review will be required prior to remediating the area. Due to this delay, EPA has agreed to allow remediation to proceed into the "outer lip" area. Remediation activities for the "outer lip" will be the same as the "inner lip" kriging area ; i.e. soil excavation, confirmation sample collection (50 foot random interval) and analysis, grading, seeding, placing erosion mat, etc. Confirmation samples will be collected and analyzed daily. A numeric system will be established to enable specific location and tracking of progress and confirmation sample results. Confirmation samples areas that indicate remaining soil exceeds 50 pCi/g Pu (calculated) will be over excavated in a 50'x50' grid and a new confirmation sample will be collected for that area.

Contact Record Prepared By: Jan Walstrom/Mike Keating

Required Distribution:

M. Aguilar, USEPA
S. Bell, DOE-RFFO
J. Berardini, K-H
B. Birk, DOE-RFFO
L. Brooks, K-H ESS
M. Broussard, K-H RISS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFFO
C. Deck, K-H Legal
S. Gunderson, CDPHE
M. Keating, K-H RISS

R. McCallister, DOE-RFFO
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE
A. Primrose, K-H RISS
R. Schassburger, DOE-RFFO
S. Serreze, K-H RISS
D. Shelton, K-H ESS
C. Spreng, CDPHE
S. Surovchak, DOE-RFFO

Additional Distribution:

G. Kleeman, USEPA
D. Kruchek, CDPHE
D. Mayo, K-H RISS

K. Wiemelt, K-H RISS
C. Zahm, K-H Legal

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 10/4/2004 10:00

Site Contact(s): Mike Keating
Phone: 303.966.4815

Regulatory Contact: Larry Kimmel
Phone: 303.312.6659

Agency: US EPA

Purpose of Contact: Ditch between Central Ave and 903 Inner Lip

Discussion

Additional radiological sampling and analysis is completed for the area located between Central Ave. and the 903 Inner Lip area. This area was originally thought to be included in the Central Ave. Ditch project. However, this area was not included and was sampled to determine if any "grids" exceeded the AL.

The sampling was based on protocol for the adjacent Inner Lip sampling grids. This protocol includes a 5 grab composite for each grid. Previous sampling of the grids north and west of the former 903 Pad were also below AL and determined to be NFA.

The Am results (pCi/g) are attached in a map. The project has used a conversion of $Pu = Am \times 5.7$. No sample exceeded the action level. Based on the data presented, EPA concurs that the area sampled is an NFA.

Contact Record Prepared By: Mike Keating, 903 Project Manager

Required Distribution:

M. Aguilar, USEPA
S. Bell, DOE-RFFO
J. Berardini, K-H
B. Birk, DOE-RFFO
L. Brooks, K-H ESS
M. Broussard, K-H RISS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFFO
C. Deck, K-H Legal
S. Gunderson, CDPHE
M. Keating, K-H RISS
L. Kimmel, USEPA
D. Kruckek, CDPHE

R. McCallister, DOE-RFFO
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pöttorff, CDPHE
A. Primrose, K-H RISS
R. Schassburger, DOE-RFFO
S. Serreze, K-H RISS
D. Shelton, K-H ESS
C. Spreng, CDPHE
S. Surovchak, DOE-RFFO
K. Wiemelt, K-H RISS
C. Zahm, K-H Legal

Additional Distribution:

D. Mayo, K-H RISS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 10/12/2004 10:00

Site Contact(s): Mike Keating
Phone: 303.966.4815

Regulatory Contact: Larry Kimmel
Phone: 303.312.6659

Agency: US EPA

Purpose of Contact: IHSS 140 Sampling and Lithium Analysis

Discussion

EPA approves additional sampling of IHSS 140 as shown on the attached map. The map shows ten sample locations in the SE area of IHSS 140. RFETS will assign sample numbers and collect these surface soil samples. We will analyze for metals as previous sample efforts. Results will be presented to USEPA and CDPHE.

Contact Record Prepared By: Mike Keating, 903 Project Manager

Required Distribution:

M. Aguilar, USEPA
S. Bell, DOE-RFFO
J. Berardini, K-H
B. Birk, DOE-RFFO
L. Brooks, K-H ESS
M. Broussard, K-H RISS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFFO
C. Deck, K-H Legal
S. Gunderson, CDPHE
M. Keating, K-H RISS
L. Kimmel, USEPA
D. Kruchek, CDPHE
D. Mayo, K-H RISS

R. McCallister, DOE-RFFO
J. Mead, K-H ESS
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L. Norland, K-H RISS
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E. Pottorff, CDPHE
A. Primrose, K-H RISS
R. Schassburger, DOE-RFFO
S. Serreze, K-H RISS
D. Shelton, K-H ESS
C. Spreng, CDPHE
S. Surovchak, DOE-RFFO
K. Wiemelt, K-H RISS
C. Zahm, K-H Legal

Additional Distribution:

Serreze, Susan

From: Keating, Michael
Sent: Thursday, October 14, 2004 8:15 AM
To: Larry Kimmel; Ainscough, Harlen
Cc: Wiemelt, Karen; Serreze, Susan
Subject: Revise IHSS 140 sample locations

Here is a revised soil sample plan for IHSS 140. The sample grid generally covers the "trench" area previously sampled for lithium. If this looks OK, I will prepare a contact record.



140northern.pdf
(35 KB)

Mike Keating, P.E.

K-H Project Manager

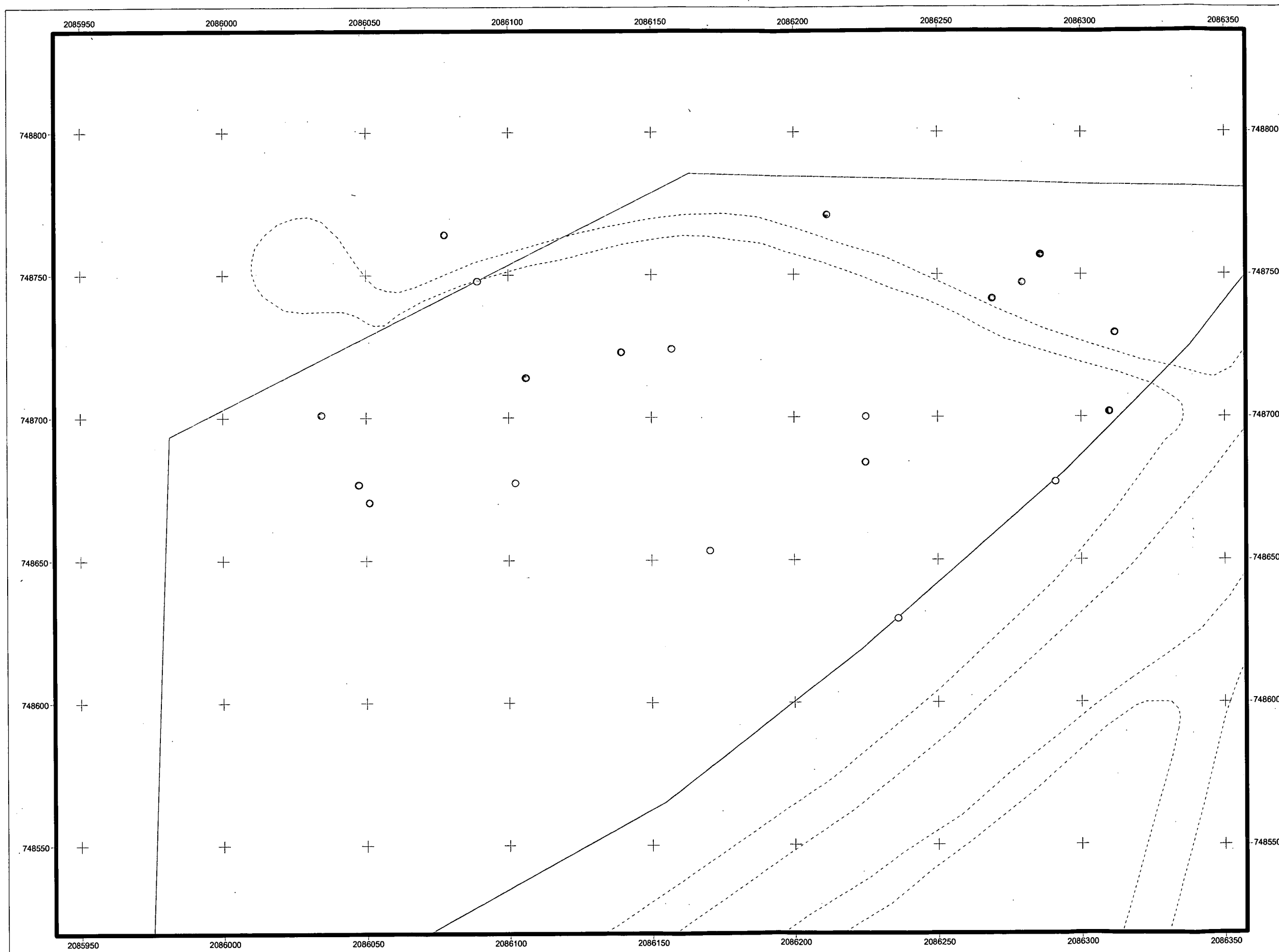
Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy



Proposed Additional Sampling IHSS 140

KEY

- Existing Sampling Locations
- Proposed Sampling Location
- IHSS 140
- Dirt Road

DRAFT



10 0 10 20 30 40 Feet

Scale = 1:400

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:



Prepared for:



projects/2004/ihss 140/ihss 140.apr

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 10/18/04
Site Contact(s): Mike Keating
Phone: 303.966.4815
Regulatory Contact: Larry Kimmel
Phone: Harlen Ainscough
Agency: US EPA/ CDPHE

Purpose of Contact: IHSS 140 Lithium Samples

Discussion

The attached map shows the location of 10 additional surface and subsurface samples to be collected in the IHSS 140 area. Samples will be analyzed for lithium.

Contact Record Prepared By: Mike Keating, PE, Project Manager

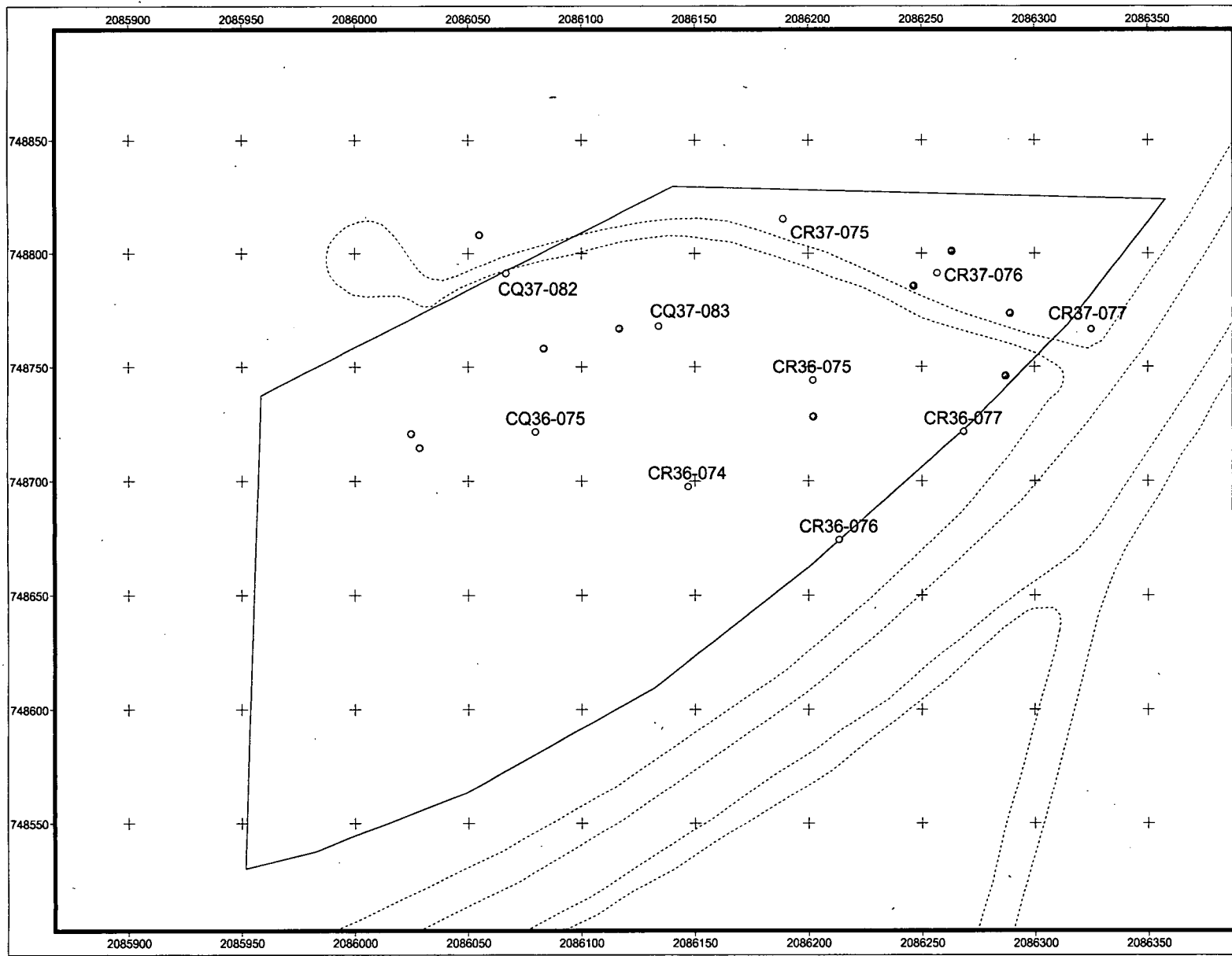
Required Distribution:

M. Aguilar, USEPA
S. Bell, DOE-RFFO
J. Berardini, K-H
B. Birk, DOE-RFFO
L. Brooks, K-H ESS
M. Broussard, K-H RISS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFFO
C. Deck, K-H Legal
S. Gunderson, CDPHE
M. Keating, K-H RISS
L. Kimmel, USEPA
D. Kruchek, CDPHE
D. Mayo, K-H RISS

R. McCallister, DOE-RFFO
J. Mead, K-H ESS
S. Nesta, K-H RISS
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E. Pottorff, CDPHE
A. Primrose, K-H RISS
R. Schassburger, DOE-RFFO
S. Serreze, K-H RISS
D. Shelton, K-H ESS
C. Spreng, CDPHE
S. Surovchak, DOE-RFFO
K. Wiemelt, K-H RISS
C. Zahm, K-H Legal

Additional Distribution:

176



Proposed Additional Sampling IHSS 140

KEY

- Existing Sampling Locations
- Proposed Sampling Location
- IHSS 140
- Dirt Road

DRAFT



10 0 10 20 30 40 Feet

Scale = 1:500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for:



Prepared by:



File: projects\2004\has 140\has 140.apr

Date: 10/19/04

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

Date/Time: 10/18/04
Site Contact(s): Mike Keating
Phone: 303.966.4815
Regulatory Contact: Larry Kimmel
Phone: Harlen Ainscough
Agency: US EPA/ CDPHE

Purpose of Contact: IHSS 140 Lithium Samples

Discussion

The attached map shows the location of 10 additional surface and subsurface samples to be collected in the IHSS 140 area. Samples will be analyzed for lithium.

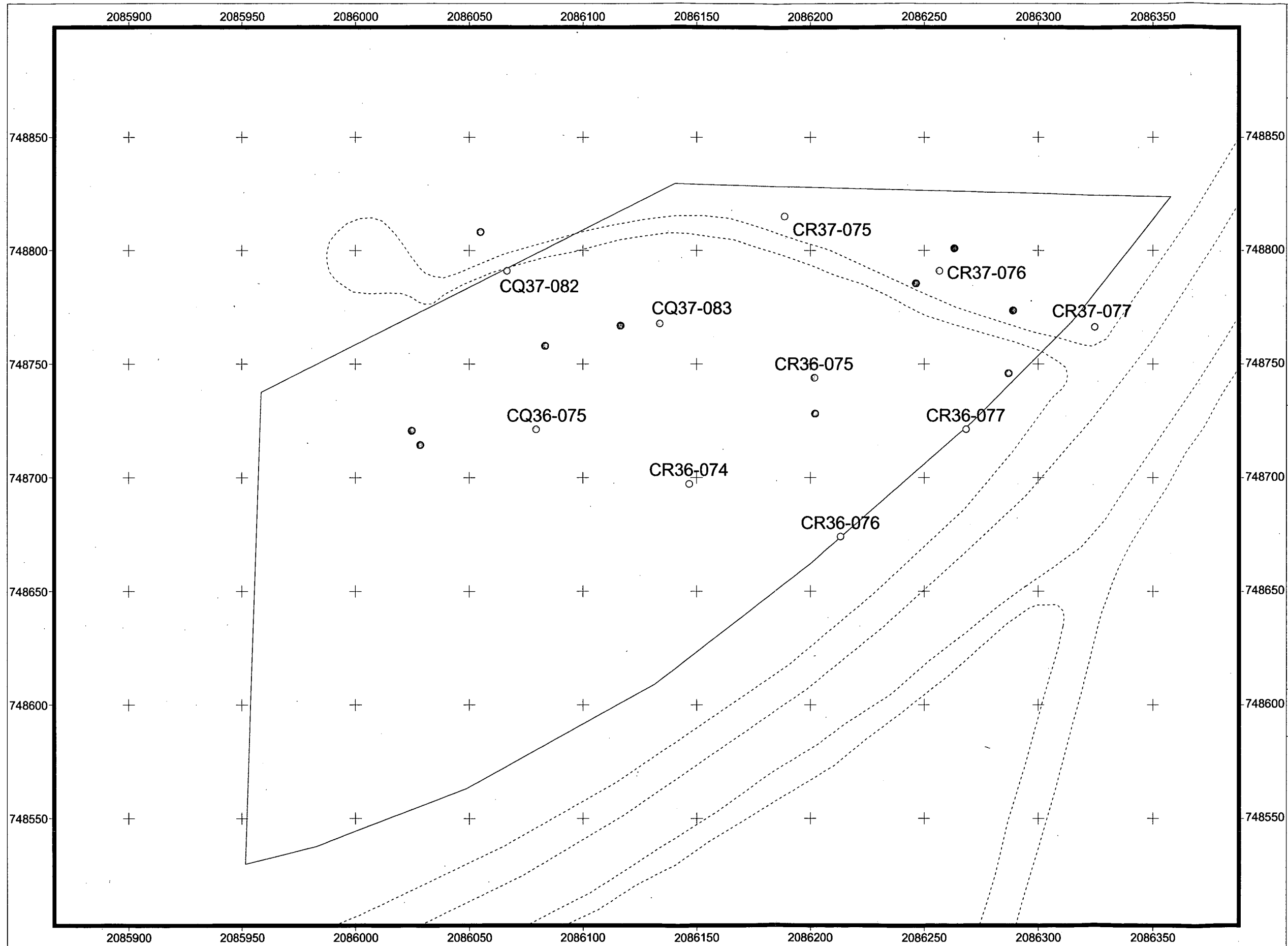
Contact Record Prepared By: Mike Keating, PE, Project Manager

Required Distribution:

M. Aguilar, USEPA
S. Bell, DOE-RFFO
J. Berardini, K-H
B. Birk, DOE-RFFO
L. Brooks, K-H ESS
M. Broussard, K-H RISS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFFO
C. Deck, K-H Legal
S. Gunderson, CDPHE
M. Keating, K-H RISS
L. Kimmel, USEPA
D. Kruchek, CDPHE
D. Mayo, K-H RISS

Additional Distribution:

R. McCallister, DOE-RFFO
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE
A. Primrose, K-H RISS
R. Schassburger, DOE-RFFO
S. Serreze, K-H RISS
D. Shelton, K-H ESS
C. Spreng, CDPHE
S. Surovchak, DOE-RFFO
K. Wiemelt, K-H RISS
C. Zahm, K-H Legal



Proposed Additional Sampling IHSS 140

KEY

- Existing Sampling Locations
- Proposed Sampling Location
- IHSS 140
- Dirt Road

DRAFT



10 0 10 20 30 40 Feet

Scale = 1:500

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for:



Prepared by:



File: projects/2004/ihss 140/ihss 140.apr

Date: 10/18/04

178

Serreze, Susan

From: Kimmel.Larry@epamail.epa.gov
Sent: Thursday, October 21, 2004 8:42 AM
To: Keating, Michael
Cc: #ER Contact Records; Ainscough, Harlen; tbechtel@greystone.us
Subject: Re: IHSS 140 sampling

Mike,

EPA concurs with the proposed sampling.

Larry Kimmel

EPA Remedial Project Manager

Phone 303-312-6659

Fax 303-312-6067

kimmel.larry@epa.gov

-----"Keating, Michael" <Michael.Keating@rfets.gov> wrote: -----

To: #ER Contact Records <#ERContactRecords@rfets.gov>

From: "Keating, Michael" <Michael.Keating@rfets.gov>

Date: 10/19/2004 09:29AM

Subject: IHSS 140 sampling

<<IHSS 140 contact record 10_19_04.doc>> <<IHSS 140 Add_1 Sampling Locs.pdf>>

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

> E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

179

11/29/2004

Daily Status Reports

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Monday, December 08, 2003 4:55 PM
o: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas
Subject: 903 Pad Status Report 12/08/03

Activities accomplished for Monday 12-08-03

- Marquez Construction welded a new cutting edge on the bucket of one trackhoe.
- Project started the installation of the snorkel on the exhaust of the trackhoe after welding was completed. Started framing for the exhaust of the second ionex unit at the tent structure.
- Lined intermodals for 903 Pad.
- Received 28 (12 new ones, 16 from EOU) and shipped 12 offsite.

Activities planned for Tuesday, 12-09-03.

- Complete tent #1 setup with the second ionex unit and the snorkel exhaust, perform a final smoke test.
- Start repackaging 17 random intermodals into IP-1 boxes to be counted at 664 Facility.
- 903 Lip Area Pre-Evolution is scheduled for Wednesday morning - Bldg. 060 at 8:00 a.m.
- Line intermodals that are received.
- Ship and receive empty intermodals.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

181

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, December 09, 2003 5:12 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas
Subject: 903 Pad Status Report 12/09/03

Activities accomplished for Tuesday 12-09-03

- Completed hookup of the snorkel on the trackhoe and both lonex units at tent #1.
- Performed a smoke test at tent #1.
- After the pre-evolution briefing on repackaging waste the project repackaged 1 container this afternoon, LO2608 or GFLU001094 into an IP-1 box.
- Lined intermodals for 903 Pad.
- Received 4 (2 new ones, 2 from EOU) and shipped 12 offsite.

Activities planned for Wednesday, 12-10-03.

- Continue repackaging effort at tent #1.
- Conduct Pre-Evolution Briefing at Bldg. 060 8:00 a.m. for the 903 Lip Area.
- Begin work at the 903 Lip Area.
- Line intermodals that are received.
- Ship and receive empty intermodals.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

182

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, December 10, 2003 5:23 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas
Subject: 903 Pad Repackaging / Lip Area Status Report 12/10/03

903 Pad Repackaging activities accomplished for Wednesday 12-10-03

- The snorkel broke on the trackhoe this morning, however, engineering controls are still effective (lonex Units) in removing CO from the tent structure based on real time air monitoring.
- The project repackaged today 3 intermodals into IP-1 boxes, the intermodal and WEMS numbers are as follows; AWIU000236/LO2182, MHFU002089/LO2243, and BFLU000066/LO2228.
- Lined intermodals for 903 Pad.
- Received 3 and shipped 3 offsite.

903 Pad Repackaging activities planned for Thursday 12-11-03

- Continue Repackaging at tent #1.
- Prepare first four IP-1 containers for shipping to 664 Facility

903 Lip Area activities accomplished for Wednesday, 12-10-03.

- Conducted Pre-Evolution Briefing at Bldg. 060 8:00 a.m. for the 903 Lip Area.
- Began excavation at 903 Lip Area this afternoon and filled 1 intermodal from grid V1.

903 Lip Area activities planned for Thursday 12-11-03

- Continue excavation of grid V1.
- Take confirmation sample.
- Start excavation of grids U1/T1.

903 Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Keating, Michael
ent: Thursday, December 11, 2003 4:13 PM
o: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas
Subject: 903 Pad Repackaging / Lip Area Status Report 12/11/03

903 Pad Repackaging activities accomplished for Thursday 12-11-03

- The project repackaged 7 intermodals into IP-1 boxes
- Two IP-1 containers shipped to Bldg 664 for assay

903 Pad Repackaging activities planned for Friday 12-12-03

- Continue Repackaging the last 6 IP-1s from the Intermodals at tent #1.

903 Lip Area activities accomplished for Thursday 12-11-03:

- Excavation in Cells V1 and U1
- Confirmation sample for grid V1 was 0.0 pCi/g Am
- Lined intermodals for 903 Lip area
- Received 24 and shipped 1 offsite.

903 Lip Area activities planned for Friday 12-12-03

- Continue excavation of grid U1.
- Start excavation of grids T1/S1.
- Take confirmation sample.

903 Pad and Lip Project Reportable Issues:

- None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Ruthven, Mark A.

From: Keating, Michael
Sent: Friday, December 12, 2003 3:55 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Lindsay, Thomas
Subject: 903 Pad Repackaging / Lip Area Status Report 12/12/03

903 Pad Repackaging activities accomplished for Friday 12-12-03

- Completed the repackage project w/ 6 intermodals into IP-1 boxes
- Will ship 5 IP-1s to 664 next Monday

903 Lip Area activities accomplished for Friday 12-12-03.

- Excavation in Cells U1, T1, and S1
- All 3 confirmation samples failed
- Lined intermodals for 903 Lip area
- Received 10 and shipped 0 offsite.

903 Lip Area activities planned for Monday 12-15-03

- Continue excavation of grid U1, T1, S1.
- Take confirmation samples.
- Line intermodals for lip area

903 Pad and Lip Project Reportable Issues:

- None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

*"Only those who dare to fail greatly can ever achieve greatly."
-Robert F. Kennedy*

185

Ruthven, Mark A.

From:
ent:
fo:

Keating, Michael
Tuesday, December 16, 2003 4:15 PM
Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar;
'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer,
Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette;
Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad;
Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven,
Mark A.

Cc:
Subject:

Burmeister, Mark; McQueary, Steven; Lindsay, Thomas
903 Lip Area Status Report 12/16/03

903 Lip Area activities accomplished for Tuesday 12-16-03.

- Continued excavation in Cells U1, T1, and S1
- Grid cell U1 passed confirmation
- Lined intermodals
- Received 0 and shipped 0 offsite.

903 Lip Area activities planned for Wednesday 12-17-03

- Continue excavation of grid T1, S1.
- Begin excavation in cells W1 and X1
- Take confirmation samples.
- Line intermodals for lip area

903 Pad and Lip Project Reportable Issues:

- None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Wednesday, December 17, 2003 5:38 PM
fo: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/17/03

903 Lip Area activities accomplished for Wednesday 12-17-03.

- Continued excavation in cells T1, S1, and W1.
- Grid cells S-1 and T-1 passed confirmation at 0.0 pCi/g 1.0' deep.
- Lined intermodals.
- Received 0 and shipped 0 offsite.

903 Lip Area activities planned for Thursday 12-18-03

- Continue excavation of grids W1, and X1.
- Take confirmation samples.
- Line intermodals for lip area

Thomas M. Lindsay
JSS/ER
T-124A
X5705
cell 994-2724
radio #3757

187

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Thursday, December 18, 2003 7:10 AM
to: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Lindsay, Thomas
Subject: RE: 903 Lip Area Status Report 12/17/03 - Revised

I revised the status report to include additional information, (highlighted).

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

-----Original Message-----

From: Lindsay, Thomas
Sent: Wednesday, December 17, 2003 5:38 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/17/03

903 Lip Area activities accomplished for Wednesday 12-17-03.

- Continued excavation in cells T1, S1, and W1 filling 6 intermodals.
- Grid cells S-1 and T-1 passed confirmation at 0.0 pCi/g 1.0' deep.
- Excessive high winds caused down time in the afternoon.
- Lined intermodals.
- Received 0 and shipped 0 offsite. All shipments to E.O.U. are temporarily on hold.

903 Lip Area activities planned for Thursday 12-18-03

- Continue excavation of grids W1, and X1.
- Take confirmation samples.
- Line intermodals for lip area

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Thursday, December 18, 2003 4:41 PM
to: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/18/03

903 Lip Area activities accomplished for Thursday 12-18-03.

- Continued excavation in cells W1, X1, R1, Q1 and P1.
- Filled 23 intermodals.
- Grid cells W1, X1, Q1 and R1 passed confirmation. W1 was 0.0 pCi/g for the confirmation and field duplicate at 1.0' deep, X1 was 0.0 pCi/g at 0.5' deep, Q1 was 1.9 pCi/g at 1.0' deep and R1 was 0.0 pCi/g at 1' deep.
- Lined intermodals.
- Received 12 (new containers from factory) and shipped 0 offsite. Shipments to E.O.U. are still paused at this time.

903 Lip Area activities planned for Friday 12-19-03

- Continue excavation of grids P1, O1 and N1.
- Take confirmation samples.
- Line intermodals for lip area.
- Receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

189

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Friday, December 19, 2003 4:56 PM
to: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/19/03

903 Lip Area activities accomplished for Friday 12-19-03.

- Continued excavation in cells N1, O1, P1 and X2.
- Filled 34 intermodals.
- Installed matting from X1 through Q1.
- Grid cells P1, O1, and X2 passed confirmation. P1 was 3.26 pCi/g at 0.5' deep, O1 was 2.76 pCi/g at 1.5' deep, X2 was 2.76 pCi/g at 1.5' deep.
- Lined intermodals.
- Received and unloaded 800 - 50 lb. bags of absorbent.
- Received 2 (new containers from factory) and shipped 0 offsite. Shipments to E.O.U. are still paused at this time.

903 Lip Area activities planned for Monday 12-22-03

- Continue excavation of grids M1, N1, and W2.
- Take confirmation samples.
- Line intermodals for lip area.
- Receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

190

Ruthven, Mark A.

From:
ent:
fo:

Lindsay, Thomas
Monday, December 22, 2003 4:29 PM
Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar;
'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer,
Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette;
Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad;
Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Ruthven,
Mark A.

Cc:
Subject:

Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
903 Pad Status Report 12/22/03

903 Lip Area activities accomplished for Monday 12-22-03.

- Continued excavation in cells M1, N1 and W2.
- Filled 34 intermodals.
- Grid cells M1, N1, and W2 passed confirmation. M1 was 0.0 pCi/g at 1.5' deep for the confirmation and F.D samples, N1 was 0.0 pCi/g at 1.5' deep, W2 was 2.4 pCi/g at 0.5' deep.
- Lined intermodals.
- Received 4 (new containers from factory) and shipped 0 offsite. Shipments to E.O.U. are still paused at this time.

903 Lip Area activities planned for Tuesday 12-23-03

- Continue excavation of grids U2, V2.
- Take confirmation samples.
- Line intermodals for lip area.
- Receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, December 23, 2003 4:40 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area

903 Lip Area activities accomplished for Tuesday 12-23-03.

- Continued excavation in cells K1 and L1.
- Filled 26 intermodals.
- Grid cells K1 and L1 passed confirmation. K1 was 2.4 pCi/g at 1.5' deep and L1 was 0.0 pCi/g at 1.5' deep.
- Lined intermodals that were received from E.O.U.
- Received 28 from E.O.U. and shipped 0 offsite. Shipments to E.O.U. are still paused at this time.

903 Lip Area activities planned for Wednesday 12-24-03

- Continue excavation of grids U2, V2.
- Take confirmation samples.
- Line intermodals for lip area.
- Receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

192

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, December 24, 2003 12:57 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12-24-03

903 Lip Area activities accomplished for Wednesday 12-24-03.

- Continued excavation in cells V2/U2 and T2.
- Filled 13 intermodals.
- Took 3 confirmation samples, V2,U2 and T2, all failed. V2 was 13 pCi/g, U2 was 11 pCig/ and T2 was 17 pCig/, all at 0.5' deep. These cells will be over-excavated.
- Lined intermodals that were received.
- Received 0 and shipped 0 offsite. Shipments to E.O.U. are still paused at this time.
- No additional work will be conducted this week, Merry Christmas!!!!

903 Lip Area activities planned for Monday 12-29-03

- Continue excavation of grids if intermodals are available.
- Take confirmation samples.
- Line intermodals for lip area.
- Receive and possibly ship containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

193

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, December 29, 2003 5:02 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/29/03

903 Lip Area activities accomplished for Monday 12-29-03.

- Continued over excavation in cell V2 filling 2 intermodals.
- Because the project is short of containers at this time we worked half a day only, the crew was let go at lunch time.
- Took 1 confirmation sample at cell V2. V2 was 0.0 pCi/g at 0.8' deep.
- Lined intermodals that were received.
- Received 8 and shipped 0 offsite. Shipments to E.O.U. are still paused at this time but are expected to resume by tomorrow.

903 Lip Area activities planned for Tuesday 12-30-03

- Continue excavation of grids U2 and T2.
- Take confirmation samples.
- Line intermodals for lip area.
- Receive and possibly ship containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

194

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, December 30, 2003 5:50 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/30/03

903 Lip Area activities accomplished for Tuesday 12-30-03.

- Continued over excavation in cell U2 filling 5 intermodals.
- Took 1 confirmation sample at cell U2. U2 was 3.95 pCi/g at 0.8' deep.
- Lined intermodals that were received.
- Received 20 and shipped 0 offsite. Shipments to E.O.U. were paused today but are expected to resume tomorrow.

903 Lip Area activities planned for Wednesday 12-31-03

- Continue excavation of grids T2.
- Take confirmation samples.
- Line intermodals for lip area.
- Ship containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

195

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, December 31, 2003 2:30 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 12/31/03

903 Lip Area activities accomplished for Wednesday 12-31-03.

- Continued over excavation in cell T2, S2 and R2 filling 17 intermodals.
- Took 3 confirmation samples at cells R2, S2 and T2. R2 was 0.8 pCi/g at 0.5' deep, S2 was 1.78 pCi/g at 1.1' deep and T2 was 3.84 pCi/g at 0.8' deep.
- Lined intermodals.
- Received 0 and shipped 13 offsite. Shipments to E.O.U. were started back up today.

903 Lip Area activities planned for Monday 1-05-03

- Continue excavation of grids at Q2 and P2.
- Take confirmation samples.
- Line intermodals for lip area.
- Ship containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

196

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, January 05, 2004 4:44 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/05/04

903 Lip Area activities accomplished for Monday 1-05-04.

- Continued excavation in cell Q2 filling 5 intermodals.
- Took 1 confirmation sample at cell Q2 but it failed.
- Lined intermodals.
- Received 2 and shipped 18 (15 from 903 Pad, 3 from 865) offsite.

903 Lip Area activities planned for Tuesday 1-06-04

- Continue excavation of grids at Q2 and P2 pending intermodal availability.
- Take confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

197

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, January 06, 2004 4:59 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/06/04

903 Lip Area activities accomplished for Tuesday 1-06-04.

- Operated on a reduced staff today due to lack of intermodals and weather.
- Lined intermodals that were received today after they dried out and were surveyed.
- Received 23 and shipped 20 offsite.

903 Lip Area activities planned for Wednesday 1-07-04

- Resume excavation of grids at Q2 and P2.
- Take confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

198

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, January 07, 2004 5:04 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/07/04

903 Lip Area activities accomplished for Wednesday 1-07-04.

- Resumed excavation on grids Q2, O2 and P2 filling 24 intermodals.
- Took 3 confirmation samples from O2, P2 and Q2 after over-excavating. Cell Q2 was 4.43 pCi/g at 0.8' deep, P2 was 1.0' deep at 0.0 pCi/g and O2 was 2.14 pCi/g at 1.8' deep.
- Received 0 and shipped 12 offsite.

903 Lip Area activities planned for Thursday 1-08-04

- A reduced staff will ship and receive containers until additional empties are received onsite.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: McQueary, Steven
Sent: Friday, January 09, 2004 4:00 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A. Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Cc:
Subject: 903 Lip Area Status Report 01/09/04

903 Lip Area activities accomplished for Friday 1-09-04.

- Line intermodals for lip area.
- Shipped 20 intermodals
- Received 18 intermodals.
- Loaded 207C Project lift liners into 2 intermodals.
- Sent 5 intermodals for 779 Project.

903 Lip Area activities planned for Monday 1-12-04

- Resumed excavation on grids.
- Continue to ship, received and line intermodals.

903 Lip Project Reportable Issues:

- None

*Steven McQueary
(303) 966-4228 Office
(303) 994-3245 Cell
Envirocon, Inc.*

200

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, January 12, 2004 8:18 AM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/08/04

903 Lip Area activities accomplished for Thursday 1-08-04.

- Limited operations today due to no intermodals.
- Lined containers that were received today.
- Received 19 and shipped 17 offsite.

903 Lip Area activities planned for Friday 1-09-04

- A reduced staff will ship and receive containers.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, January 12, 2004 5:19 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A. Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Cc:
Subject: 903 Lip Area Status Report 1/12/04

903 Lip Area activities accomplished for Monday 1-12-04.

- Resumed excavation activities today at grids N2 and X3 filling 15 intermodals.
- Took multiple confirmation samples at grids N2 and X3 which failed at 48.5 pCi/g and 8.29 pCi/g respectively.
- Lined containers that were received today.
- Received 3 (2 from repairs 1 new one) and shipped 29 offsite.

903 Lip Area activities planned for Tuesday 1-13-04

- A reduced staff will ship and receive containers.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, January 14, 2004 5:02 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A. Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Cc:
Subject: 903 Lip Area Status Report 1/14/04

903 Lip Area activities accomplished for Wednesday 1-14-04.

- Resumed excavation activities today at grids N2, X3, W3, V3 and U3 filling 21 intermodals.
- Took five (5) confirmation samples at grids N2, X3, W3, V3 and U3 however only 3 passed V3 and U3 failed. Cell N2 was 1.32 pCi/g at 1.5' deep, cell X3 was 3.36 pCi/g at 0.8' deep and W3 was 4.01 pCi/g at 0.5' deep. Cell U3 confirmation was 6.9 pCi/g but the duplicate was 9.4 pCi/g which failed and V3 confirmation failed at 18 pCi/g.
- Lined containers that were received today.
- Tent #2 was demolished today by KH - D&D.
- Received 16 and shipped 22 offsite.

903 Lip Area activities planned for Thursday 1-15-04

- Continue excavation tomorrow at grids U3 and V3, take confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, January 15, 2004 4:27 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/15/04

903 Lip Area activities accomplished for Thursday 1-15-04.

- Resumed excavation activities today at grids V3, U3 and T3 filling 11 intermodals.
- Took three (3) confirmation samples at grids V3, U3 and T3 however only V3 passed with the confirmation and F.D. at 0.0 pCi/g 0.8' deep. The other two grids U3 and T3 failed at 26 pCi/g and 10.34 pCi/g respectively.
- Lined containers that were received today.
- KH - D&D continued work on tent #2 removing it as waste.
- Received 11 and shipped 26 offsite.

903 Lip Area activities planned for Friday 1-16-04

- Operate on a minimum staff to support shipping and receiving.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, January 19, 2004 4:53 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/19/04

903 Lip Area activities accomplished for Monday 1-19-04.

- Resumed excavation activities today at grids U3, T3, S3, R3 and Q3 filling 24 intermodals.
- Took five (5) confirmation samples but only 3 passed. Grid U3 was 0.91 pCi/g at 1.5' deep, T3 was 1.5 pCi/g at 0.8' deep and R3 was 0.0 pCi/g at 0.8' deep. Grids S3 and Q3 failed and will be over-excavated.
- Lined containers that were received today.
- Started work again at tent #1 with the steelworkers and randomly selected 10 IP-1 intermodals to be repacked into smaller IP-1 boxes and sampled at 664 Facility. This group includes containers >21 nCi/g < 39 nCi/g that were previously excavated from the 903 Pad project. The project completed one intermodal LO2175 (AWIU000277).
- Additional trucks arrived onsite today to help support the increased shipping backlog.
- Received 41 and shipped 39 offsite.

903 Lip Area activities planned for Tuesday 1-20-04

- Continue excavation on the Lip Area and collect confirmation samples.
- Line intermodals for lip area.
- Continue efforts for repackaging / sampling randomly selected IP-1 containers at tent #1.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, January 20, 2004 5:03 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A. Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Cc:
Subject: 903 Lip Area Status Report 1/20/04

903 Lip Area activities accomplished for Tuesday 1-20-04.

- Resumed excavation activities today at grids S3, Q3, P3, O3 and N3 filling 21 intermodals.
- Took five (5) confirmation samples 2 passed 1 failed and the other 2 sample results will be available tomorrow. Grid S3 was 1.3 pCi/g at 0.8' deep, Q3 was 2.79 pCi/g at 0.8' deep. Grid P3 will be over-excavated and failed at 36.9 pCi/g.
- Lined containers that were received today.
- Continued work at tent #1 with the steelworkers and repacked 5 into smaller IP-1 boxes for sampling at 664 Facility.
- Received 6 and shipped 29 offsite.

903 Lip Area activities planned for Wednesday 1-21-04

- Continue excavation on the Lip Area and collect confirmation samples.
- Line intermodals for lip area.
- Continue efforts for repackaging / sampling randomly selected IP-1 containers at tent #1.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

206

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, January 21, 2004 5:13 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/21/04

903 Lip Area activities accomplished for Wednesday 1-21-04.

- Continued excavation activities today at grids P3, O3 and M2 filling 22 intermodals.
- The two samples from Tuesday that were not reported are N3 at 3.93 pCi/g 0.5' deep, and O3 which failed at 50.3 pCi/g and was over-excavated today.
- Took three (3) confirmation samples and two passed. Grid P3 was 0.0 pCi/g at 1.0' deep, O3 was 2.28 pCi/g at 1.0' deep. Grid M2 failed and will be over-excavated tomorrow.
- Lined containers that were received today.
- Completed the ten random intermodals at tent #1 by repacking the last 4 into smaller IP-1 boxes for sampling at 664 Facility.
- Received 33 and shipped 30 offsite.

903 Lip Area activities planned for Thursday 1-22-04

- Continue excavation on the Lip Area and collect confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, January 22, 2004 5:19 PM
To: Castaneda, Norma; Dreith, Gary; Spreng, Carl; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/22/04

903 Lip Area activities accomplished for Thursday 1-22-04.

- Continued excavation activities today at grids K2, L2, and M2 filling 25 intermodals.
- Took two (2) confirmation samples and both passed. Grid L2 was 2.48 pCi/g at 1.5' deep, M2 was 3.89 pCi/g at 1.7' deep.
- Lined containers today.
- Resumed work at tent #1 repackaging intermodals into 4 x 4 IP-1 boxes filling 8. These boxes will be sent to 664 counting facility.
- Received 0 and shipped 30 offsite.

903 Lip Area activities planned for Friday 1-23-04

- No excavation activities will be performed at the Lip Area.
- Line intermodals for lip area.
- Continue repackaging intermodals at tent #1 into smaller 4 x 4 boxes.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, January 27, 2004 7:34 AM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/26/04

903 Lip Area activities accomplished for Monday 1-26-04.

- Continued excavation activities today at grids K2, X4, W4 and V4 filling 24 intermodals.
- Took four (4) confirmation samples. Grid K2 was 3.0 pCi/g at 2.0' deep, X4 was 0.0 pCi/g at 0.5' deep, W4 at 0.5' deep was 2.0 pCi/g and V4 at 0.5' deep was 0.0 pCi/g.
- Lined containers today.
- Resumed work at tent #1 repackaging intermodals into 4 x 4 IP-1 boxes filling 6. These boxes will be sent to 664 counting facility.
- Received 11 and shipped 26 offsite.

903 Lip Area activities planned for Tuesday 1-27-04

- Continue excavation activities at the Lip Area and take confirmation samples.
- Line intermodals for lip area.
- Continue repackaging intermodals at tent #1 into smaller 4 x 4 boxes and ship to 664 facility.
- Repack two NCR intermodals from 865 Facility.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, January 27, 2004 4:59 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/27/04

903 Lip Area activities accomplished for Tuesday 1-27-04.

- Continued excavation activities today at grid U4 filling 8 intermodals.
- Took one (1) confirmation sample at U4 which failed and will be over-excavated tomorrow.
- Most of the effort today was spent in repackaging two intermodals from 865 project that were tagged as NCR's. This waste can now be shipped offsite and the two original containers will be free released offsite for repairs.
- Lined containers today.
- Continued work at tent #1 repackaging intermodals into 4 x 4 IP-1 boxes filling 3 from LO2669. The remainder of the day was spent lightening two heavy intermodals from the 903 pad.
- Received 36 and shipped 26 offsite.

903 Lip Area activities planned for Wednesday 1-28-04

- Continue excavation activities at the Lip Area and take confirmation samples.
- Line intermodals for lip area.
- Continue repackaging intermodals at tent #1 into smaller 4 x 4 boxes and ship to 664 facility.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

210

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, January 28, 2004 5:03 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/28/04

903 Lip Area activities accomplished for Wednesday 1-28-04.

- Continued excavation activities today at grids U4, S4, T4, R4 and Q4 filling 24 intermodals.
- Took five (5) confirmation samples but only 3 passed, Q4 and R4 failed and will be over-excavated tomorrow. Grid U4 was 0.0 pCi/g at 1.0' deep, grid T4 was 0.0 pCi/g at 0.5' deep and S4 was 1.0 pCi/g at 0.5' deep.
- Lined containers today.
- Continued work at tent #1 repackaging intermodal L02166 completing it and filling 9 boxes.
- A third forklift is onsite to help support the shipping and receiving of containers at the Lip Area.
- Received 20 and shipped 26 offsite.

903 Lip Area activities planned for Thursday 1-29-04

- Continue excavation activities at the Lip Area and take confirmation samples.
- Line intermodals for lip area.
- Continue repackaging intermodals at tent #1 into smaller 4 x 4 boxes and ship to 664 facility.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

211

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, January 29, 2004 4:51 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 1/29/04

903 Lip Area activities accomplished for Thursday 1-29-04.

- Continued excavation activities today at grids R4, Q4, P4, O4 and N4 filling 31 intermodals.
- Took five (5) confirmation samples but only 3 passed, O4 and N4 failed and will be over-excavated on Monday. Grid R4 was 3.01 pCi/g at 1.0' deep, grid Q4 was 2.0 pCi/g at 1.5' deep and P4 was 0.0 pCi/g at 1.7' deep for the confirmation and F.D.
- Lined containers today.
- Continued work at tent #1 repackaging intermodal L03148 completing it and filling 8 boxes. Shipped four (4x4) boxes to 664 facility.
- Received 43 and shipped 25 offsite.

903 Lip Area activities planned for Friday 1-30-04

- Minimum crew will operate today supporting shipping and receiving only.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

212

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, February 02, 2004 5:13 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/02/04

903 Lip Area activities accomplished for Monday 2-02-04.

- Continued excavation activities today at grids O4, N4, W5 and X5 filling 25 intermodals.
- Took four (4) confirmation samples but only 2 passed. O4 was 0.8' deep at 0.0 pCi/g and X5 at 0.5' deep was 1.32 pCi/g. Grids N4 and W5 will be over-excavated tomorrow.
- Progress was hindered when the loader broke down early this morning until it was repaired.
- Lined containers today.
- Continued work at tent #1 repackaging intermodals L01011 and L03142 filling 17 boxes.
- Received 30 and shipped 26 (5 from 774, 21 from 903 Lip) offsite.

903 Lip Area activities planned for Tuesday 2-03-04

- Continue excavation activities at N4 and W5 grids. Take confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

213

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, February 03, 2004 5:10 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/03/04

903 Lip Area activities accomplished for Tuesday 2-03-04.

- Continued excavation activities today at grids W5, V5, U5, T5, S5, R5 and Q5 filling 40 intermodals.
- Took six (6) confirmation samples but only 3 passed. W5 was 0.8' deep at 0.0 pCi/g, V5 at 0.8' deep was 0.0 pCi/g and T5 was 1.0' deep at 4.6 pCi/g and 3.96 pCi/g for the confirmation and F.D. samples respectively. Grid R5 failed at 13.10 pCi/g, S5 failed at 24.24 pCi/g and U5 failed.
- Frozen ground has made it difficult to excavate the first 6" and take a confirmation sample. Some of the depths above are from the first excavation/sampling event but because the ground is frozen, chunks of soil are excavated verses loose soil.
- Lined containers today.
- Continued work at tent #1 repackaging intermodals and filling 16 boxes.
- Received 22 and shipped 20 (5 from 774, 15 from 903 Lip) offsite.

903 Lip Area activities planned for Wednesday 2-04-04

- Continue excavation activities starting at U5, S5, R5 etc. Take confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, February 04, 2004 4:52 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/04/04

903 Lip Area activities accomplished for Wednesday 2-04-04.

- Continued re-excavation today at grids N4, U5, S5, R5 and Q5 filling 10 intermodals.
- Took five (5) confirmation samples and four passed. N4 was 0.0 pCi/g at 2.0' deep, U5 was 0.0 pCi/g at 0.8' deep, S5 was 0.0 pCi/g at 0.7' deep, R5 was 0.0 pCi/g at 0.8' deep. Grid Q5 failed at 15.12 pCi/g.
- Weather played havoc on Radiological Operations making it hard to survey containers. Worked a partial day only.
- Lined containers today.
- Continued work at tent #1 repackaging intermodals and filling 11 boxes.
- Received 37 and shipped 20 offsite.

903 Lip Area activities planned for Thursday 2-05-04

- Continue excavation activities starting at grid Q5. Take confirmation samples.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, February 05, 2004 4:49 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Ruthven, Mark A. Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Cc:
Subject: 903 Lip Area Status Report 2/05/04

903 Lip Area activities accomplished for Thursday 2-05-04.

- Continued re-excavation today at grids Q5, P5, O5 and N5 filling 27 intermodals.
- Took four (4) confirmation samples and three passed. N5 was 2.08 pCi/g at 0.8' deep, P5 was 2.69 pCi/g at 1.0' deep and Q5 was 1.93 pCi/g at 1.0' deep. Grid O5 failed at 61.2 pCi/g.
- Weather continued to play havoc on Radiological Operations making it hard to survey containers.
- Lined containers today.
- Continued work at tent #1 repackaging intermodals and filling 9 boxes.
- Received 37 and shipped 25 offsite.

903 Lip Area activities planned for Friday 2-06-04

- Repack 8 lift liners from the soil vacuum project of the Outer Lip into intermodals.
- Ship SWB's to Envirocare that were analyzed at 664 facility from earlier TRU Waste Repackaging effort.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: McQueary, Steven
Sent: Friday, February 06, 2004 4:00 PM
To: Lindsay, Thomas; Keating, Michael; Butler, Lane; Wiemelt, Karen; Primrose, Annette; Foreman, Harry L.; McQueary, Steven; Bean, Curtis; Blake, Chad; Gernatt, Steven; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Castaneda, Norma; Norland, Lee; Geimer, Raymond; Snyder, Duke
Cc: Jaramillo, Jeremy R.; Burmeister, Mark
Subject: 903 Lip Area Status Report 02-06-04

903 Lip Area activities accomplished for Thursday 2-06-04.

- Continued excavation today at grids V6, X6, and W6 filling 4 intermodals.
- No confirmations taken due to no URS support.
- Weather continued to be an issue with respect to Radiological Operations making it hard to survey containers.
- Lined containers today.
- Received 38 and shipped 20 offsite.
- Repackaged 8 soil vacuuming lift liners into 3 intermodals
- Repaired 2 NCR'ed containers with gasket problems
- Loaded 19 SWB's for shipment

903 Lip Area activities planned for Monday 2-09-04

- Continue excavation in Lip Area.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

*Steven McQueary
(303) 966-4228 Office
(303) 994-3245 Cell
Envirocon, Inc.*

217

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, February 09, 2004 5:02 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/09/04

903 Lip Area activities accomplished for Monday 2-09-04.

- Continued re-excavation today at grids O5, X6, W6, V6, U6 filling 30 intermodals.
- Took five (5) confirmation samples and all five passed after over-excavation was performed. O5 was 5.95 pCi/g at 1.0' deep, U6 was 0.0 pCi/g at 1.0' deep, V6 was 4.91 pCi/g at 0.5' deep, W6 was 0.0 pCi/g at 0.8' deep and X6 was 0.0 pCi/g at 1.0' deep.
- Lined containers today.
- Continued work at tent #1 repackaging intermodals filling 9 boxes. Final results are complete on the 10 random selected intermodals and the data is under review.
- Received 24 and shipped 20 offsite.

903 Lip Area activities planned for Tuesday 2-10-04

- Continue excavation activities at T6 and S6. Take confirmation samples.
- Continue repackaging effort in tent #1.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

218

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, February 10, 2004 3:02 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/10/04

903 Lip Area activities accomplished for Tuesday 2-10-04.

- Continued excavation today at grids S6/T6 filling 16 intermodals, (6 intermodals were blended with Lip Area soil from tent #1 repackaging activities).
- Took two (2) confirmation samples. Grid S6 was 2.96 pCi/g at 0.5' deep, T6 was 2.31 pCi/g at 0.5' deep.
- Worked a partial day only, operations were shut down due to safety issues across RFETS.
- Lined containers today.
- Continued work at tent #1 supporting lip area project by blending residual soil from repacked intermodals with Lip Area waste.
- Received 6 (4 returned from MCS repaired) and shipped 20 offsite.

903 Lip Area activities planned for Wednesday 2-11-04

- KH senior management will brief all workers on recent safety issues before work can commence. Work will proceed pending KH management approval.
- Excavation activities may resume starting at grid R6. Take confirmation samples.
- Continue repackaging effort in tent #1.
- Line intermodals for lip area.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, February 11, 2004 4:58 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/11/04

903 Lip Area activities accomplished for Wednesday 2-11-04:

- Operations were still shut down due to safety issues across RFETS. Briefed workers at noon today regarding the safety issues and corrective actions.
- Approval was given by KH management to support only shipping and receiving activities. Weather made it difficult for rad operations to survey and release shipments. We staged the containers that were scheduled for today's shipment.

903 Lip Area activities planned for Wednesday 2-12-04

- Support shipping and receiving operations only.
- Expect to startup all operations by Monday, 2/16/04.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, February 12, 2004 4:24 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/12/04

903 Lip Area activities accomplished for Thursday 2-12-04.

- Minimal operations were conducted today, support of shipping / receiving activities.
- The project lined intermodals.
- Shipped 25 intermodals and received 0 empties.

903 Lip Area activities planned for Monday 2-16-04

- Startup of all operations on Monday, 2/16/04 will be pending KH senior management approval.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

221

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, February 16, 2004 5:23 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/16/04

903 Lip Area activities accomplished for Monday 2-16-04.

- A sitewide safety pause was conducted across RFETS. All of the 903 Lip Area personnel were briefed on the past occurrences/events. Minimal operations were conducted today; 1) Staging intermodals for shipment, 2) Lining intermodals.
- A correction to Thursday's status report (2/12/04) 0 intermodals were shipped.

903 Lip Area activities planned for Tuesday 2-17-04

- A phase II safety briefing will be discussed with all workers in the morning before work commences. This brief will provide feedback from the workforce on work practices/procedures.
- Commence work operations after the safety brief.
- Ship and receive containers pending Material Stewardship safety brief with trucking.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

222

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, February 17, 2004 5:39 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/17/04

903 Lip Area activities accomplished for Tuesday 2-17-04.

- The phase II portion of the safety pause was implemented today which solicited the workers input.
- Work recommenced at the Lip Area in the afternoon at grids Q6 and R6 filling 2 intermodals and weighing 3 from last week.
- Lined intermodals.
- No shipping or receiving occurred today, this work will recommence tomorrow.

903 Lip Area activities planned for Wednesday 2-18-04

- Continue excavation activities at Q6/R6 and row 7, take confirmation samples.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- This afternoon at approximately 1:55 p.m. a worker was taken to Vista hospital offsite because of a non-work related incident. Management and supervision was notified of the incident.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

223

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, February 18, 2004 5:28 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/18/04

903 Lip Area activities accomplished for Wednesday 2-18-04.

- Continued excavation activities today at grids W7, W8, W9, V7, V8 and R6 grids filling 22 intermodals.
- Took six confirmation samples and five passed. W7 was 3.09 pCi/g at 0.5' deep, W8 was 0.0 pCi/g at 0.5' deep, W9 was 1.2 pCi/g at 0.5' deep, V7 was 4.38 pCi/g at 0.5' deep and V8 was 4.19 pCi/g at 0.5' deep. Grid R6 failed at 40.9 pCi/g and will be over-excavated tomorrow.
- The steelworkers repacked one intermodal (L01779 / GFLU1064) into an IP1 box to have it assayed at 664 facility.
- Lined intermodals.
- Shipped 24 offsite and received 30 empties.

903 Lip Area activities planned for Thursday 2-19-04

- Continue excavation activities at R6 and westward, take confirmation samples.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

224

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, February 19, 2004 5:17 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/19/04

903 Lip Area activities accomplished for Thursday 2-19-04.

- Continued excavation activities today at grids R6, Q6, P6, O6 and U8 filling 29 intermodals.
- Took five confirmation samples and four passed. R6 was 2.14 pCi/g at 0.8' deep, Q6 was 6.24 pCi/g at 0.5' deep, P6 was 5.57 pCi/g at 0.5' deep, and O6 was 0.0 pCi/g and 1.78 pCi/g for the confirmation and F.D. samples at 0.8' deep. Grid U8 failed at 28.1 pCi/g and will be over-excavated Monday.
- The steelworkers repacked six intermodals into IP1 boxes to have them assayed at 664 facility. They are L01779 (GFLU001064), L02607(MHFU002118), L02665(MHFU2137), L02496(BFLU00275), L02762(GFLU001135), and L01734(GFLU001067).
- Lined intermodals.
- Shipped 26 offsite and received 0 empties.

903 Lip Area activities planned for Monday 2-23-04

- Continue excavation activities at N6 and U8 westward, take confirmation samples.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

225.

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, February 23, 2004 4:54 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/23/04

903 Lip Area activities accomplished for Monday 2-23-04.

- Continued excavation activities today at grids C11, and D11 filling 21 intermodals.
- Took two confirmation samples C11 was 1.6 pCi/g at 1.0' deep, D11 was 2.0 pCi/g at 1.5'.
- The steelworkers repacked 5 IP1 boxes today from 5 intermodals to have them assayed at 664 facility. They are L02185, L01734, L02608, L02239, and L01034.
- Lined intermodals.
- Shipped 25 offsite and received 37 empties.

903 Lip Area activities planned for Tuesday 2-24-04

- Continue excavation activities at E11/F11, take confirmation samples.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

226

Ruthven, Mark A.

From:
Sent:
To:

Lindsay, Thomas
Tuesday, February 24, 2004 4:55 PM
Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl;
'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer,
Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke;
Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt,
Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.;
Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/24/04

903 Lip Area activities accomplished for Tuesday 2-24-04.

- Continued excavation activities today at grids E11, F12 and F11 filling 26 intermodals.
- Took three confirmation samples but only two passed E11 was 5.0 pCi/g at 1.0' deep and F12 was 3.0 pCi/g at 1.0'. Grid F11 failed at 27 pCi/g and will be over-excavated tomorrow.
- The steelworkers repacked 3 IP1 boxes today from 3 intermodals to have them assayed at 664 facility. They are L03145, L03066 and L02228.
- Lined intermodals.
- Shipped 28 offsite and received 34 empties.

903 Lip Area activities planned for Wednesday 2-25-04

- Continue excavation activities at F11/G11/G12, take confirmation samples.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, February 25, 2004 4:51 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscoough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/25/04

903 Lip Area activities accomplished for Wednesday 2-25-04.

- Continued excavation activities today at grids F11 and G12 filling 15 intermodals.
- Took two confirmation samples F11 was 0.0 pCi/g at 2.0' deep with several over-excavations and G12 was 0.0 pCi/g at 1.0' deep.
- The project was impacted today because travelers were not generated for intermodals due to the site mainframe went down from a virus. The problem has been corrected.
- The steelworkers are blending intermoal L02679 (MHFU002141).
- Lined intermodals.
- Shipped 15 offsite and received 22 empties.

903 Lip Area activities planned for Thursday 2-26-04

- Continue excavation activities at G11/H11/H12 and take confirmation samples.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, February 26, 2004 4:50 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nestá, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/26/04

903 Lip Area activities accomplished for Thursday 2-26-04.

- Continued excavation activities today at grids G11 and G12 filling 28 intermodals.
- Took two confirmation samples G11 was 2.0 pCi/g at 1.5' deep and H12 was 2.0 pCi/g at 1.0' deep.
- The steelworkers continue blending intermoal L02679 (MHFU002141).
- Lined intermodals.
- Shipped 25 offsite and received 28 empties.

903 Lip Area activities planned for Friday 2-27-04

- Ship and receive containers.
- Line intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757



Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Friday, February 27, 2004 4:30 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 2/27/04

903 Lip Area activities accomplished for Friday 2-27-04.

- No excavation activities today.
- The project crew lined intermodals that were received.
- Onsite trucking took 8 damaged intermodals to MCS and returned 8 that were repaired.
- Shipped 25 offsite and received 31 empties.

903 Lip Area activities planned for Monday 3-01-04

- Continue excavation operations at H11 and I12 moving eastward.
- Continue blending and repackaging efforts at tent #1.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, March 01, 2004 4:42 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/01/04

903 Lip Area activities accomplished for Monday 3-01-04.

- The project continued excavation today at H11/I12 filling 26 intermodals today.
- Took two confirmation samples H11 at 1.0' deep 2.98 pCi/g and I12 at 0.5' deep 6.56 pCi/g.
- Completed blending operations for L02679 (MHFU002141).
- The project crew lined intermodals that were received.
- Shipped 24 offsite and received 18 empties.

903 Lip Area activities planned for Tuesday 3-02-04

- Continue excavation operations at I11 and J12 moving eastward.
- Continue blending and repackaging efforts at tent #1.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

231

Ruthven, Mark A.

From:

Sent:

To:

Lindsay, Thomas

Tuesday, March 02, 2004 5:15 PM

Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiernelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna

Cc:

Subject:

Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas

903 Lip Area Status Report 3/02/04

903 Lip Area activities accomplished for Tuesday 3-02-04.

- The project continued excavation today at I11/J11/J12/U7 and U8 filling 25 intermodals today.
- Took five confirmation samples but only two passed. Grid I11 at 1.0' deep was 6.81 pCi/g (this grid failed later based on the preliminary URS data and will be re-excavated tomorrow), grid J12 at 1.0' deep was 1.63 pCi/g and 3.60 pCi/g for the confirmation and F.D. respectively, grid J11 at 1.5' deep was 1.38 pCi/g. Grids U7 and U8 both failed at 7.89 pCi/g and 34.1 pCi/g and will be over-excavated tomorrow in conjunction with I11.
- KH construction D&D removed Bldg. 952.
- The project lined intermodals that were received.
- Shipped 20 offsite and received 23 empties.

903 Lip Area activities planned for Wednesday 3-03-04

- Continue over-excavation at I11 and U7/U8.
- Continue blending and repackaging efforts at tent #1.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay

RISS/ER

T-124A

X5705

cell 994-2724

radio #3757

232

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, March 03, 2004 4:46 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/03/04

903 Lip Area activities accomplished for Wednesday 3-03-04.

- The project continued excavation today at U7/U8/T8/I11 and T7 filling 35 intermodals today.
- Took five confirmation samples, four passed. Grid I11 at 1.0' deep was 0.0 pCi/g, grid U7 at 0.8' deep was 0.0 pCi/g, grid U8 at 1.5' deep was 1.12 pCi/g, grid T8 at 0.5' deep was 2.44 pCi/g. Grid T7 fails at 0.5' deep 26.6 pCi/g and will be over-excavated tomorrow.
- The steelworkers completed blending L02753 (BFLI000076).
- The project lined intermodals that were received.
- Shipped 26 offsite and received 20 empties.

903 Lip Area activities planned for Thursday 3-04-04

- Continue excavation at T7 and S8/S7.
- Continue blending and repackaging efforts at tent #1L01033 (BFLU000312).
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, March 04, 2004 5:03 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/04/04

903 Lip Area activities accomplished for Thursday 3-04-04.

- The project continued excavation today at S8/S9/S10 and T7 filling 27 intermodals today.
- Took four confirmation samples, three passed. Grid S8 at 0.8' deep was 3.48 pCi/g, grid S9 at 0.5' deep was 5.92 pCi/g and 5.25 pCi/g for the confirmation and F.D. respectively, grid T7 at 1.5' deep was 0.0 pCi/g. Grid S10 fails at 0.5' deep 9.09 pCi/g and will be over-excavated.
- The steelworkers completed blending L01033 (BFLU000312) and repacking L02243 (MHFU002089) into an IP-2 container.
- The project lined intermodals that were received.
- Shipped 10 offsite and received 24 empties.

903 Lip Area activities planned for Friday 3-05-04

- No excavation activities.
- Perform minor repairs to intermodals and ship offsite other intermodals to MCS for repair.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

234

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, March 08, 2004 5:21 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/08/04

903 Lip Area activities accomplished for Monday 3-08-04.

- The project continued excavation today at S7/R9/R10 filling 20 intermodals today.
- Took three confirmation samples. Grid S7 at 1.1' deep was 0.8 pCi/g and 3.4 pCi/g for the confirmation and F.D. respectively, grid R10 at 0.9' deep was 5.19 pCi/g and grid R9 at 0.8' deep was 0.0 pCi/g.
- The steelworkers continued repackaging intermodals L02185 (GFLU001100) filling 5 boxes.
- The project lined intermodals that were received.
- Shipped 18 offsite and received 20 empties.

903 Lip Area activities planned for Tuesday 3-09-04

- Continue excavation activities at R7.
- Take confirmation samples.
- Steelworkers will continue repackaging effort at tent #1.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, March 09, 2004 4:12 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/09/04

903 Lip Area activities accomplished for Tuesday 3-09-04.

- The project continued excavation today at R79/R8/Q9 and Q10 filling 27 intermodals today.
- Took four confirmation samples. Grid R7 at 0.8' deep was 3.17 pCi/g, grid R8 at 0.8' deep was 1.19 pCi/g, grid Q9 at 0.5' deep was 0.9 pCi/g and grid Q10 at 0.5' deep was 0.0 pCi/g.
- The steelworkers continued repackaging intermodal L01779 (GFLU001064).
- The project lined intermodals that were received.
- Shipped 17 offsite and received 2 empties.

903 Lip Area activities planned for Wednesday 3-10-04

- Continue excavation activities at Q8/Q7.
- Take confirmation samples.
- Steelworkers will continue repackaging effort at tent #1.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Wednesday, March 10, 2004 5:07 PM
to: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/10/04

903 Lip Area activities accomplished for Wednesday 3-10-04.

- The project continued excavation today at Q7/Q8 and P7 filling 24 intermodals today.
- Took three confirmation samples, two passed. Grid Q7 at 0.8' deep was 1.32 pCi/g and grid P7 at 0.5' deep was 6.62 pCi/g. Grid Q8 failed at 0.5' deep 9.92 pCi/g and will be over-excavated tomorrow.
- The steelworkers continued repackaging intermodals L02496 (BFLU000275) and L03145 (MHFU001366).
- The project lined intermodals that were received.
- Shipped 17 offsite and received 3 empties.

903 Lip Area activities planned for Thursday 3-11-04

- Continue excavation activities at Q8.
- Take confirmation samples.
- Steelworkers will continue repackaging effort at tent #1.
- Line intermodals that are received.
- Ship and receive containers.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, March 11, 2004 4:50 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/11/04

903 Lip Area activities accomplished for Thursday 3-11-04.

- The project continued excavation today at Q8/P7/P9 and P10 filling 24 intermodals today.
- Took five confirmation samples. The project re-excavated P7 today and took a second confirmation sample based on the preliminary URS laboratory data. Grid Q8 at 1.0' deep was 0.0 pCi/g, grid P7 at 0.8' deep was 0.0 pCi/g, grid P8 at 0.8' deep was 0.0 pCi/g, grid P9 at 0.5' deep was 1.71 pCi/g and grid P10 at 0.5' deep was 4.21 pCi/g.
- The steelworkers continued repackaging intermodals L03066 (CVGU001082) and L02608 (GFLU001094).
- The project lined intermodals that were received.
- Shipped 25 offsite and received 25 empties.

903 Lip Area activities planned for Friday 3-12-04

- No excavation activities.
- Disconnect power and relocate the RCT support connex.
- Support shipping & receiving.
- Line intermodals that are received.
- Repair damaged intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From:

Lindsay, Thomas

Sent:

Friday, March 12, 2004 3:31 PM

To:

Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna

Cc:

Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas

Subject:

903 Lip Area Status Report 3/12/04

903 Lip Area activities accomplished for Friday 3-12-04.

- Onsite trucking shipped 10 intermodals offsite to MCS for repairs and brought back 8. Envirocon made minor repairs to other damaged containers onsite.
- Gash Electric disconnected power to the RCT instrument connex, Envirocon relocated the connex, and power was reconnected. Air sampler S-119 and of EPA's air sampler was down temporarily during this evolution. Power was restored by 10:30 a.m.
- The project lined intermodals that were received.
- Shipped 21 offsite and received 20 empties.

903 Lip Area activities planned for Monday 3-15-04

- Continue excavation activities at the O grids.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive containers

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay

RISS/ER

T-124A

X5705

cell 994-2724

radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, March 15, 2004 4:47 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/15/04

903 Lip Area activities accomplished for Monday 3-15-04.

- The project continued excavation today at U9/V9 and V10 filling 31 intermodals today.
- Took 3 confirmation samples. Grid U9 at 0.8' deep was 0.0 pCi/g, grid V9 at 1.0' deep was 2.0 pCi/g and grid V10 at 0.5' deep was 5.0 pCi/g.
- The steelworkers are in training all week, no work at tent #1.
- The project lined intermodals that were received.
- Shipped 0 offsite (the site server was down on Friday - WEMS was not accessible) and received 41 empties.

903 Lip Area activities planned for Tuesday 3-16-04

- Continue excavation activities at grids U10/T9 and T10.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

122
Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, March 16, 2004 3:29 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harien.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/16/04

903 Lip Area activities accomplished for Tuesday 3-16-04.

- The project performed minimum activities till noon because of high winds, no excavation was performed.
- The steelworkers are in training all week, no work at tent #1.
- Shipped 23 offsite and received 22 empties.

903 Lip Area activities planned for Wednesday 3-17-04

- Continue excavation activities at grids U10/T9 and T10.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From:

ent:

to:

Lindsay, Thomas

Wednesday, March 17, 2004 4:32 PM

Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna

Cc:

Subject:

Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas

903 Lip Area Status Report 3/17/04

903 Lip Area activities accomplished for Wednesday 3-17-04.

- Because of high winds the project lined intermodals inside tent #1 for the morning activities.
- Excavation activities resumed in the afternoon at grids T9/T10 and U10 filling 17 intermodals.
- Took three confirmation samples, one passed, two failed. Grid U10 at 0.5' deep was 2.0 pCi/g. Grids T9 and T10 failed at 39pCi/g and 7 pCi/g respectively.
- Lined intermodals that were received.
- Shipped 22 offsite and received 10 empties.

903 Lip Area activities planned for Thursday 3-18-04

- Continue excavation activities at grids T9/T10.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay

RISS/ER

T-124A

X5705

cell 994-2724

radio #3757

242

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Thursday, March 18, 2004 5:22 PM
o: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/18/04

903 Lip Area activities accomplished for Thursday 3-18-04. .

- Excavation activities resumed at grids T9/T10 and S10 filling 23 intermodals.
- Took three confirmation samples. Grid T9 at 0.8' deep was 2.42 pCi/g, grid T10 at 0.8' deep was 0.0 pCi/g and grid S10 at 0.8' deep was 2.34 pCi/g.
- Lined intermodals that were received.
- Shipped 30 offsite and received 20 empties.

903 Lip Area activities planned for Friday 3-19-04

- Continue excavation activities at grid N6.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, March 22, 2004 4:37 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/22/04

903 Lip Area activities accomplished for Monday 3-22-04. .

- Excavation activities resumed at grids N6, N7 and O7 filling 26 intermodals.
- Took three confirmation samples. Grid N6 at 1.0' deep was 2.18 pCi/g, grid N7 at 0.8' deep was 5.47 pCi/g and grid O7 at 0.8' deep was 2.96 pCi/g.
- Lined intermodals, changed out gaskets that were received.
- Shipped 25 offsite and received 16 empties.

903 Lip Area activities planned for Tuesday 3-23-04

- Continue excavation activities at grid O8/O9.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757.

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, March 23, 2004 5:35 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/23/04

903 Lip Area activities accomplished for Tuesday 3-23-04. .

- No excavation activities today. Gasket material for the doors was on order and had not arrived from Accurate Industries.
- Lined intermodals.
- Started moving equipment (generator, entry connex, etc.) from tent #1 in preparation to perform a final radiological survey of the tent structure for demolition.
- Shipped 24 offsite and received 5 empties.

903 Lip Area activities planned for Wednesday 3-24-04

- Continue excavation activities at grid O8/O9.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
ent: Wednesday, March 24, 2004 4:48 PM
io: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/24/04

903 Lip Area activities accomplished for Wednesday 3-24-04. .

- Continued excavation activities at grid O8 filling 7 intermodals.
- Took one confirmation sample that failed at grid O8, 0.5' deep 57.7 pCi/g.
- Lined intermodals.
- Continued breaking down equipment from tent #1 and surveying out materials and equipment in preparation for a final radiological survey of the tent structure for demolition.
- Shipped 20 offsite and received 40 (14 new Cast intermodals, 26 from E.O.U)empties.

903 Lip Area activities planned for Thursday 3-25-04

- Continue excavation activities at grid O8/O9.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, March 25, 2004 4:49 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; 'geimer raymond rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/25/04

903 Lip Area activities accomplished for Thursday 3-25-04. .

- Continued excavation activities at grids N8/N10/O8/O9 and O10 filling 27 intermodals.
- Took five confirmation samples and three passed. Grid N8 at 0.5' deep was 0.0 pCi/g, grid O8 at 0.8' deep was 0.0 pCi/g, grid O10 at 0.8' deep was 3.08 pCi/g. Grids O9 and N10 failed at 15.7 pCi/g and 33.2 pCi/g respectively.
- Lined intermodals that were received.
- RCT's started rad surveys on tent #1 for release.
- Shipped 23 offsite and received 53 (6 new Cast intermodals, 47 from E.O.U) empties.
- Transferred onsite 10 intermodals each to 771 and 881 projects. 2 intermodals were transferred to the OPWL project.

903 Lip Area activities planned for Friday 3-26-04

- Line intermodals that are received.
- Receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, March 29, 2004 4:43 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/29/04

903 Lip Area activities accomplished for Monday 3-29-04. .

- Continued excavation activities at grids N9/N10/O9 filling 22 intermodals.
- Took three confirmation samples. Grid N9 at 0.8' deep was 3.27 pCi/g, grid N10 at 0.8' deep was 2.27 pCi/g and grid O9 at 0.8' deep was 0.7 pCi/g.
- Lined intermodals that were received.
- RCT's continue rad surveys on tent #1 for release.
- Shipped 20 offsite and received 11 empties.

903 Lip Area activities planned for Tuesday 3-30-04

- Minimal activities tomorrow due to the loss of a fellow coworker over the weekend from a rare form of leukemia, Benji Archibeque. Most of the workers will be attending the funeral.
- Line intermodals that are received.
- Setup new loading area in the Kreiging Area.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

248

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, March 31, 2004 5:12 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 3/31/04

903 Lip Area activities accomplished for Wednesday 3-31-04. .

- Completed setup of new loading area over the ridge in the southwest lip area.
- Resumed excavation activities at row 3 over grid K3 filling 2 intermodals.
- Lined intermodals that were received.
- RCT's continue rad surveys on tent #1 for release.
- Shipped 12 offsite and received 2 new Cavanaugh empties.

903 Lip Area activities planned for Thursday 4-01-04

- Continue excavation activities at grids K3, L3 and M3.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, April 01, 2004 4:44 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/01/04

903 Lip Area activities accomplished for Thursday 4-01-04. .

- Continued excavation activities at row 3 over grids K3/L3 and M3 filling 9 intermodals.
- Took 3 confirmation samples, all passed. Grid M3 at 2.45 pCi/g was 1.3' deep, grid L3 at 3.5 pCi/g was 1.3' deep and grid K3 at 1.18 pCi/g was 1.5' deep.
- Lined intermodals that were received.
- Tent #1 surveys are completed and the WRE has been signed, ready for D&D.
- Shipped 16 offsite and received 38 empties. Of the 38 received 26 were transferred to other projects for use.

903 Lip Area activities planned for Friday 4-02-04

- Continue excavation activities at grids K4, L4 and M4.
- Take confirmation samples.
- Repair damaged intermodals.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

250

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, April 05, 2004 4:50 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/05/04

903 Lip Area activities accomplished for Monday 4-05-04.

- Continued excavation activities at grids K5/L5 and M5 filling 24 intermodals.
- Took six confirmation samples today, three from excavations performed on Friday of last week. Grid K4 at 1.0' deep was 0.0 pCi/g, grid L4 at 1.6' deep was 2.63 pCi/g, grid M4 at 1.5' deep was 2.63 pCi/g and M5 at 1.0' deep was 2.29 pCi/g. Grids L5 and K5 failed at 27.1 and 26.0 pCi/g respectively.
- Lined intermodals that were received.
- Shipped 18 offsite and received 26 empties.

903 Lip Area activities planned for Tuesday 4-06-04

- Continue excavation activities at grids K5 and L5.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

251

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, April 06, 2004 4:53 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/06/04

903 Lip Area activities accomplished for Tuesday 4-06-04. .

- Continued excavation activities at grids K5/L5/K6 and A6 filling 28 intermodals.
- Started excavation of grid A6 (west side of 903 Pad).
- Took three confirmation samples today. Grid K5 at 2.3' deep was 0.0 pCi/g and grid L5 at 2.1' deep was 1.98 pCi/g. Grid K6 at 1.5' deep failed at 22.7 pCi/g and will be over-excavated.
- Lined intermodals that were received.
- Shipped 0 offsite and received 20 empties.

903 Lip Area activities planned for Wednesday 4-07-04

- Continue excavation activities at grids K6/L6 and A6 west of 903 Pad.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, April 07, 2004 5:03 PM.
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/07/04

903 Lip Area activities accomplished for Wednesday 4-07-04.

- Continued excavation activities at grids K6/L6/M6 and A6 filling 42 intermodals.
- Continued excavation of grid A6 (west side of 903 Pad).
- Took three confirmation samples today. Grid K6 at 2.0' deep was 5.58 pCi/g, grid L6 at 1.8' deep was 3.4 pCi/g and grid M6 at 2.1' deep was 2.1 pCi/g.
- Lined intermodals that were received.
- Shipped 15 offsite and received 27 (4 new containers from Cavanaugh, 23 from E.O.U) empties.

903 Lip Area activities planned for Thursday 4-08-04

- Continue excavation activities at grids K7/L7/M7 and complete A6 west of 903 Pad.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

253

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, April 08, 2004 5:22 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/08/04

903 Lip Area activities accomplished for Thursday 4-08-04.

- Continued excavation activities at grids K7/L7/M7 and A6 filling 41 intermodals.
- Completed excavation of grid A6 (west side of 903 Pad).
- Took four confirmation samples today, three passed. Grid K7 at 1.5' deep was 4.42 pCi/g, grid M7 at 1.5' deep was 4.22 pCi/g and grid A6 at 2.0' deep was 2.67 pCi/g. Grid L7 at 1.5' deep failed at 52.6 pCi/g and will be over-excavated.
- Lined intermodals that were received.
- Shipped 15 offsite and received 23 (4 new containers from Cavanaugh, 19 from E.O.U) empties.

903 Lip Area activities planned for Friday 4-09-04

- No excavation activities.
- Repair minor maintenance items on intermodals.
- Calibrate new scale.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

254

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, April 12, 2004 4:33 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/12/04

903 Lip Area activities accomplished for Monday 4-12-04.

- The weekend weather made conditions very muddy at the site and impaired operations.
- Continued excavation activities at grids L7 and K10 filling 9 intermodals.
- Took two confirmation samples today. Grid L7 at 2.0' deep was 0.0 pCi/g and grid K10 at 0.9' deep was 0.0 pCi/g.
- Lined intermodals that were received.
- Shipped 20 offsite and received 25 (4 new containers from Cavanaugh, 21 from E.O.U) empties.

903 Lip Area activities planned for Tuesday 4-13-04

- Continue excavation activities on row 10.
- Collect confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

255

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Tuesday, April 13, 2004 4:51 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/13/04

903 Lip Area activities accomplished for Tuesday 4-13-04.

- Conditions from the weekend played havoc still when one piece of heavy equipment was stuck for awhile.
- Continued excavation activities at grid L10 filling 15 intermodals.
- Took one confirmation sample that failed, L10 at 12 pCi/g, 0.8' deep.
- Lined intermodals that were received.
- Shipped 0 offsite and received 13 (4 new containers from Cavanaugh, 9 from E.O.U) empties. Shipments to E.O.U. are temporarily suspended.

903 Lip Area activities planned for Wednesday 4-14-04

- Continue excavation activities at L10.
- Collect confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Wednesday, April 14, 2004 4:36 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/14/04

903 Lip Area activities accomplished for Wednesday 4-14-04.

- Continued excavation activities at grids K8/L8/K9 and L10 filling 32 intermodals.
- Took four confirmation samples and three passed. Grid L10 was 0.0 pCi/g at 1.1' deep, grid K8 at 3.35 pCi/g was 0.8' deep and grid K9 passed at 1.4' deep 1.01 pCi/g. Grid L8 failed at 11.6 pCi/g and will be over-excavated tomorrow.
- Lined intermodals that were received.
- Shipped 21 offsite and received 20 empties.

903 Lip Area activities planned for Thursday 4-15-04

- Continue excavation activities at L8.
- Collect confirmation samples.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Thursday, April 15, 2004 4:44 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/15/04

903 Lip Area activities accomplished for Thursday 4-15-04.

- Continued excavation activities at grids L8/L9 and M8 filling 30 intermodals.
- Took three confirmation samples. Grid L8 was 3.35 pCi/g at 0.8' deep, grid L9 at 0.0 pCi/g was 1.3' deep and grid M8 passed at 1.2' deep 0.0 pCi/g.
- Lined intermodals that were received.
- Shipped 21 offsite and received 4 (3 new and 1 from E.O.U) empties.

903 Lip Area activities planned for Friday 4-16-04

- No excavation activities.
- Survey and package into cargo containers the Soil Vacuum Equipment at the Outer Lip Area. Stage the equipment onsite for DOE.
- Perform routine maintenance / repair on intermodals.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, April 19, 2004 5:28 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/19/04

903 Lip Area activities accomplished for Monday 4-19-04.

- Continued excavation activities at grids M9/M10 and K11 filling 20 intermodals.
- Took three confirmation samples. Grid M9 was 0.0 pCi/g at 0.8' deep, grid M10 at 3.0 pCi/g was 0.8' deep and grid K11 passed at 0.8' deep 3.0 pCi/g.
- Lined intermodals that were received.
- Shipped 25 offsite and received 5 empties.

903 Lip Area activities planned for Tuesday 4-20-04

- Continue excavation activities at U11 and start remediation on the west side of the Kreiging Area.
- Take confirmation samples.
- Prepare work control documents for Outer Lip Area remediation.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

259

Ruthven, Mark A.

From: Lindsay, Thomas
Tuesday, April 20, 2004 5:30 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/20/04

903 Lip Area activities accomplished for Tuesday 4-20-04.

- Continued excavation activities at grid U11 filling 2 intermodals.
- Took one confirmation sample. Grid U11 was 4.0 pCi/g at 0.5' deep.
- As evident above, the weather (high winds) hindered production today.
- Lined intermodals that were received.
- Shipped 25 offsite and received 12 empties.

903 Lip Area activities planned for Wednesday 4-21-04

- Continue excavation activities and start remediation on the west side of the Kriging Area.
- Take confirmation samples.
- Start site preparation activities for the Outer Lip Area.
- Finalize work control documents for Outer Lip Area. Prepare for the MAR on Thursday.
- Line intermodals that are received.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Ruthven, Mark A.

From: Lindsay, Thomas
Sent: Monday, April 26, 2004 5:49 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Ruthven, Mark A.; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/26/04

903 Lip Area activities accomplished for Monday 4-26-04.

- Continued excavation activities today in the Kriging Area filling 23 intermodals.
- Took 10 confirmation samples 8 passed and 2 failed. Sample CO37-067 was 1.49 pCi/g at 1.0' deep, CP37-069 at 0.3' deep was 5.65 pCi/g, CP36-038 was 0.0 pCi/g at 0.3' deep, CP36-040 at 0.5' deep was 3.56 pCi/g, CP36-039 at 0.5' deep 0.0 pCi/g, CP37-068 at 0.5' deep 6.87 pCi/g, CP36-037 at 0.5' deep 0.0 pCi/g and CP37-067 at 0.3' deep 3.08 pCi/g. CP36-042 failed at 38.1 pCi/g and CP36-036 failed at 18.1 pCi/g.
- Continued site preparation activities for the 903 Outer Lip area.
- Shipped 20 offsite and received 28 empties.

903 Lip Area activities planned for Tuesday 4-27-04

- Continue excavation activities in the Kriging Area.
- Take confirmation samples.
- Conduct Pre-Evolution Briefing with the workers at Bldg. 060 12:30 p.m. for the Outer Lip project.
- Continue site preparation activities for the 903 Outer Lip area.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

261

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, April 29, 2004 5:09 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/29/04

903 Lip Area activities accomplished for Thursday 4-29-04.

- Continued excavation activities today at Lower Kriging area of the Inner Lip Area filling 12 intermodals.
- Took 6 confirmation samples. At the Lower Lip Kriging area CP35-023 at 0.1' deep was 4.21 pCi/g, CP35-024 at 0.4' deep was 0.0 pCi/g, CP36-042 at 1.3' deep was 0.0 pCi/g, CP35-022 at 1.4' deep was 0.0 pCi/g for both the confirmation and F.D., CP35-021 at 1.4' deep was 5.11 pCi/g and CP36-035 at 1.0' was 0.0 pCi/g for the confirmation and F.D. samples.
- Continued site preparation activities for the 903 Outer Lip area, constructing the loadout area.
- Shipped 20 offsite and received 17 empties.

903 Lip Area activities planned for Friday 4-30-04

- Start excavation at the east edge of the Outer Lip Area.
- Take confirmation samples.
- Complete construction of the loadout area for the 903 Outer Lip area.
- Relocate existing support connex and equipment from Inner Lip to Outer Lip area.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

262

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, April 30, 2004 4:07 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/30/04

903 Lip Area activities accomplished for Friday 4-30-04.

- We had good intentions but the weather won out today. Continued to construct our new load-out pad at the west edge of the Outer Lip Area. No excavation was performed.
- Relocated existing support connex, generator and other equipment from the Inner Lip to Outer Lip area.
- Shipped 20 offsite and received 30 empties.

903 Lip Area activities planned for Monday 5-03-04

- Start excavation at the east edge of the Outer Lip Area.
- Take confirmation samples.
- Complete/finalize construction of the loadout area for the 903 Outer Lip area.
- KH-D&D will start demolition of tent #1.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

263

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, May 03, 2004 5:16 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/03/04

903 Lip Area activities accomplished for Monday 5-03-04.

- Continued excavation activities today at the Outer Lip area filling 18 intermodals.
- Took 4 confirmation samples. Sample CW40-014 at 0.2' deep 1.98 pCi/g, CW40-015 at 0.1' deep 5.53 pCi/g, CW40-016 at 0.3' deep 0.0 pCi/g and CW40-010 at 0.3' deep 1.40 pCi/g.
- Completed construction of the loadout pad.
- KH-D&D tore down tent #1 today.
- Shipped 20 offsite and received 7 empties.

903 Lip Area activities planned for Tuesday 5-04-04

- Continue excavation at the east edge of the Outer Lip Area.
- Take confirmation samples.
- KH-D&D will loadout/ship waste from tent #1.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- The project incurred a first-aid injury today. A summary follows:

A worker was removing old stickers/labels from an empty intermodal that was received back from Envirocare. Using a hand scraper, with their glove on, the corner of the label was peeled up with their right hand. Afterwards, using their left hand without a glove for dexterity purposes, they pulled the remaining sticker off and swept their left hand into the scraper they were holding in their right hand. The small finger of the workers left hand was cut. The worker was taken to medical for review. No wound count was required. No stitches were required and Medical released the worker w/o restrictions back to work. The incident was classified as a first-aid.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, May 04, 2004 4:44 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Satus Report 5/04/04

903 Lip Area activities accomplished for Tuesday 5-04-04.

- It was a good day. Continued excavation activities today at the Outer Lip area filling 41 intermodals.
- Took 18 confirmation samples, all passed. Sample CV40-015 at 3.42 pCi/g 0.2' deep, CX39-010 at 0.0 pCi/g 0.4' deep, CX39-013 at 1.06 pCi/g 0.2' deep, CX39-014 at 0.0 pCi/g 0.5' deep, CX40-012 at 2.45 pCi/g 0.1' deep, CY39-004 at 1.63 pCi/g 0.2' deep, CW40-011 at 0.67 pCi/g 0.4' deep, CW40-012 at 1.09 pCi/g 0.4' deep, CW40-013 at 2.08 pCi/g 0.4' deep, CV40-014 at 0.0 pCi/g 0.4' deep, CW40-017 at 1.79 pCi/g 0.2' deep, CW39-025 at 0.0 pCi/g 0.7' deep, CW39-026 at 0.84 pCi/g 0.3' deep, CW39-028 at 0.0 pCi/g (Target) and 2.11 pCi/g (F.D.) 0.5' deep, CV39-019 at 1.58 pCi/g 0.1' deep, CW40-009 at 0.0 pCi/g 0.3' deep, CX39-006 at 3.87 pCi/g 0.7' deep, and CY39-003 at 0.0 pCi/g 0.3' deep.
- KH-D&D removed tent #1 debris.
- Shipped 20 offsite and received 32 empties.

903 Lip Area activities planned for Wednesday 5-05-04

- Continue excavation at the east edge of the Outer Lip Area.
- Take confirmation samples.
- Prepare for remediation on grid cells adjacent to Central Avenue of the Inner Lip Area west of WSI check point.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, May 05, 2004 5:16 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/05/04

903 Lip Area activities accomplished for Wednesday 5-05-04.

- Continued excavation activities today at the Outer Lip area filling 22 intermodals.
- Took 10 confirmation samples, all passed. Sample CV39-015 at 1.78pCi/g 0.3'deep, CY39-002 at 0.98 pCi/g 0.3' deep, CY39-001 at 0.0 pCi/g 0.3' deep, CW39-020 at 1.47 pCi/g 0.3'deep, CW39-021 at 4.11 pCi/g 1.1' deep, CW39-027 at 2.50 pCi/g 0.4' deep, CX39-001 at 0.0 pCi/g (Target & F.D.) 0.2' deep, CX39-002 at 0.0 pCi/g 0.3' deep, CW39-022 at 4.2 pCi/g 0.7' deep, and CW39-023 at 0.82 pCi/g 0.6' deep.
- Plant Power removed power & telecom lines today in the island area of Central Avenue in preparation for remediation on Friday. These are the stepout grids that failed precharacterization earlier.
- Shipped 20 offsite and received 28 empties.

903 Lip Area activities planned for Thursday 5-06-04

- Continue excavation at the east edge of the Outer Lip Area.
- Take confirmation samples.
- Prepare for remediation on grid cells adjacent to Central Avenue (island area) of the Inner Lip Area west of WSI check point.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, May 06, 2004 5:29 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/06/04

903 Lip Area activities accomplished for Thursday 5-06-04.

- Continued excavation activities today at the Outer Lip area filling 18 intermodals.
- Took 9 confirmation samples, all passed. Sample CX38-002 at 6.16 pCi/g 0.5' deep, CX38-005 at 0.0 pCi/g 0.5' deep, CX38-006 at 1.59 pCi/g 0.3' deep, CX39-003 at 1.5 pCi/g 0.1' deep, CX39-004 at 0.0 pCi/g 0.1' deep, CX39-005 at 0.0 pCi/g 0.1' deep, CX39-007 at 0.0 pCi/g 0.2' deep, CX39-008 at 4.08 pCi/g 0.2' deep, CX39-011 at 0.0 pCi/g 0.3' deep.
- Plant power completed their work package removal of utilities for the island area along Central Avenue. A final walkdown with management was conducted today on the area.
- Shipped 20 offsite and received 25 empties.

903 Lip Area activities planned for Friday 5-07-04

- Start excavation at the grids in the island area along Central Ave. west of the Guard Post.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, May 10, 2004 5:01 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/10/04

903 Lip Area activities accomplished for Monday 5-10-04.

- Continued excavation activities today at the Outer Lip and Inner Lip area filling 24 intermodals.
- Took 11 confirmation samples, all passed except two samples. Sample CX36-007 at 4.75 pCi/g 0.1' deep, CX37-003 at 4.4 pCi/g 0.1' deep, CX37-004 at 1.91 pCi/g 0.3' deep, CX37-006 at 0.875 pCi/g (target) 0.0 pCi/g (F.D.) 0.6' deep, CX37-009 at 0.0 pCi/g 0.1' deep, CX37-010 at 0.0 pCi/g 0.6' deep, CX38-001 at 1.96 pCi/g 0.1' deep, Grid TO' at 2.09 pCi/g 0.3' deep and grid SO' at 0.0 pCi/g 0.7' deep. Samples CX37-014 at 12.1 pCi/g and CY37-004 at 15.0 pCi/g failed and will be over-excavated.
- A new portable water tank arrived onsite and was positioned in place to provide a better means for dust suppression
- Shipped 20 offsite and received 31 empties.

903 Lip Area activities planned for Tuesday 5-11-04

- Continue excavation activities on the Outer Lip and complete the last grid along Central Aveune for the Inner Lip, grid GO.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

268

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, May 11, 2004 4:49 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/11/04

903 Lip Area activities accomplished for Tuesday 5-11-04.

- Continued excavation activities today at the Outer Lip area filling 18 intermodals.
- Took 7 confirmation samples, all passed except one sample. Sample CX37-005 at 1.56 pCi/g 0.4' deep, CX37-008 at 0.0 pCi/g 0.7' deep, CX37-014 at 0.0 pCi/g 0.3' deep, CX36-006 at 3.29 pCi/g 0.4' deep, CW37-001 at 0.0 pCi/g (Target), 0.0 pCi/g (F.D.) 0.2' deep and CX37-012 at 1.31 pCi/g 0.3' deep. Sample CX37-007 at 11.9 pCi/g 0.1' deep failed and will be over-excavated.
- Deconned the small trackhoe at the island area along central avenue and moved it further west to grid GO.
- High winds in the afternoon caused problems for excavation.
- Shipped 20 offsite and received 28 empties.

903 Lip Area activities planned for Wednesday 5-12-04

- Continue excavation activities on the Outer Lip and complete the last grid along Central Avenue for the Inner Lip, grid GO.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, May 12, 2004 5:24 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/12/04

903 Lip Area activities accomplished for Wednesday 5-12-04.

- Continued excavation activities today at the Outer Lip area and Inner Lip along Central Avenue filling 18 intermodals.
- Took 13 confirmation samples, all passed except one sample. At the Inner Lip Area along Central Avenue sample CP40-014 (Grid GO west) at 0.0 pCi/g 0.5' deep, CP40-015 (Grid GO east) at 0.0 pCi/g 0.5' deep. At the Outer Lip area sample CX38-010 at 0.0 pCi/g 0.1' deep, CX37-011 at 5.83 pCi/g 0.1' deep, CX37-007 at 0.0 pCi/g 0.4' deep, CY38-001 at 1.39 pCi/g 0.1' deep, CY37-004 at 2.0 pCi/g 0.3' deep, CX37-013 at 4.63 pCi/g 0.1' deep, CX38-003 at 0.0 pCi/g 0.4' deep, CW37-000 at 0.0 pCi/g 0.3' deep, CW37-002 at 2.78 pCi/g 0.2' deep and CX38-013 at 0.0 pCi/g 0.1' deep. Sample CX37-016 at 14.3 pCi/g 0.2' deep failed and will be over-excavated. My guess is CX37-011 will be over-excavated as well based on the preliminary numbers from the laboratory.
- Completed the last grid on Central Avenue GO.
- Shipped 20 offsite and received 12 empties.

903 Lip Area activities planned for Thursday 5-13-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, May 14, 2004 4:21 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/14/04

903 Lip Area activities accomplished for Friday 5-14-04.

- No excavation was performed today, the outer lip and loadout pad were still significantly saturated.
- The crew unloaded another truckload of coconut matting and laid out matting in the Inner/Outer Lip areas that were downposted.
- Staged monitoring well pads for waste loading next week.
- Shipped 28 offsite and received 36 empties.

903 Lip Area activities planned for Monday 5-17-04

- Resume excavation activities on the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, May 17, 2004 5:04 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/17/04

903 Lip Area activities accomplished for Monday 5-17-04.

- Continued excavation activities today at the Outer Lip area filling 38 intermodals.
- Took 12 confirmation samples, 7 passed and 5 failed. CX38-011 at 4.89 pCi/g 0.1' deep, CW38-007 at 4.07 pCi/g 0.3' deep, CW38-011 at 0.0 (target & F.D.) pCi/g 0.2' deep, CW39-012 at 3.14 pCi/g 0.1' deep, CX38-007 at 0.0 pCi/g 0.5' deep, CX37-016 at 0.0 pCi/g 0.8' deep and CX37-011 at 0.0 pCi/g 0.8' deep. Those samples that failed were CX38-014 at 15.8 pCi/g 0.1' deep, CX38-008 at 9.36 pCi/g (target) 7.59 pCi/g (F.D.) 0.4' deep, CW38-008 at 12.1 pCi/g 0.2' deep, CX38-015 at 8.51 pCi/g 0.4' deep and CX38-012 at 19.7 pCi/g 0.6' deep.
- Shipped 20 offsite and received 15 empties.

903 Lip Area activities planned for Tuesday 5-18-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

272

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, May 18, 2004 4:55 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/18/04

903 Lip Area activities accomplished for Tuesday 5-18-04.

- Continued excavation activities today at the Outer Lip area filling 38 intermodals.
- Took 16 confirmation samples, 14 passed and 2 failed. CX37-017 at 4.05 pCi/g 0.3' deep, CX37-015 at 3.86 pCi/g 0.1' deep, CW38-012 at 2.65 pCi/g 0.9' deep, CX39-012 at 2.19 pCi/g 0.4' deep, CW38-003 at 2.9 pCi/g 0.3' deep, CX38-008 at 4.62 pCi/g (target) 4.22 pCi/g (F.D.) 0.3' deep, CW38-008 at 0.0 pCi/g 0.7' deep, CX38-012 at 1.92 pCi/g 0.7' deep, CW38-015 at 0.0 pCi/g 0.5' deep, CV39-009 at 0.0 pCi/g 0.6' deep, CX38-015 at 2.47 pCi/g 0.9' deep, CX39-009 at 0.0 pCi/g 0.6' deep, CV38-010 at 3.72 pCi/g 0.4' deep, CX38-014 at 0.84 pCi/g 0.3' deep. Those samples that failed were CW39-015 at 10.0 pCi/g 0.1' deep and CW39-016 at 7.45 pCi/g 0.7' deep.
- Shipped 20 offsite and received 41 empties.

903 Lip Area activities planned for Wednesday 5-18-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, May 19, 2004 5:46 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/19/04

903 Lip Area activities accomplished for Wednesday 5-19-04.

- Continued excavation activities today at the Outer Lip area filling 31 intermodals.
- Took 10 confirmation samples all passed. CV38-015 at 0.0 pCi/g 1.0' deep, CW39-016 at 0.0 pCi/g 0.5' deep, CW39-015 at 0.0 pCi/g 0.8' deep, CW39-014 at 0.0 pCi/g 0.6' deep, CW39-013 at 2.19 pCi/g 0.1' deep, CW38-013 at 3.25 pCi/g 0.3' deep, CV39-010 at 0.0 pCi/g (target and F.D.) 0.9' deep, CU35-014 at 2.17 pCi/g 0.3' deep, CV35-010 at 3.41 pCi/g 0.1' deep and CV36-017 at 6.08 pCi/g 0.1' deep.
- Shipped 20 offsite and received 3 empties.

903 Lip Area activities planned for Thursday 5-20-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Keating, Michael
Sent: Thursday, May 20, 2004 5:05 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/20/04

903 Lip Area activities accomplished for Thursday 5-20-04.

- Continued excavation activities today at the Outer Lip area filling 38 intermodals.
- 5 Confirmations samples failed: [REDACTED]
- 7 Confirmations samples passed: CW39-024, @0.1', 0.77 pCi/g, CV35-009, @0.3', 3.17 pCi/g, CW39-019, @0.1', 2.44 pCi/g, CV39-016, @0.5, 3.25 pCi/g, CV39-011, @0.6, 0.0 pCi/g, CV39-012, @0.6, 0.0 pCi/g, CV39-020, @0.5', 0.0 pCi/g
- Shipped 20 offsite and received 31 empties.

903 Lip Area activities planned for Friday 5-21-04

- Place erosion mat and seed
- Improve lip area staging area to reduce tire rutting due to moisture and heavy equipment.
- Equipment maintenance
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- 2 first aids: bee sting, minor facial scratch

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, May 24, 2004 4:34 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/24/04

903 Lip Area activities accomplished for Monday 5-24-04.

- Continued excavation activities today at the Outer Lip area filling 38 intermodals.
- Took 11 confirmation samples, 8 passed and 3 failed. CS36-016 at 0.0 pCi/g 0.8' deep, CW39-017 at 0.0 pCi/g 0.6' deep, CS36-017 at 3.66 pCi/g 0.5' deep, CV39-022 at 3.30 pCi/g 0.3' deep, CW39-018 at 5.7 pCi/g 0.4' deep, CS36-010 at 0.647 pCi/g 0.6' deep, CS36-013 at 3.86 pCi/g 0.2' deep, CV39-021 at 0.0 pCi/g 0.4' deep. The samples that failed were CV39-023 at 42.4 pCi/g 0.2' deep, CS36-014 at 7.24 pCi/g 0.3' deep and CV39-024 at 51.0 pCi/g 0.3' deep.
- Shipped 20 offsite and received 27 empties.

903 Lip Area activities planned for Tuesday 5-25-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

276

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, May 25, 2004 4:54 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 4/25/04

903 Lip Area activities accomplished for Tuesday 5-25-04.

- Continued excavation activities today at the Outer Lip area filling 30 intermodals.
- Took 13 confirmation samples, all passed. CS36-014 at 0.0 pCi/g 0.7' deep, CV39-012 at 0.0 pCi/g 0.8' deep, CW39-019 at 3.03 pCi/g 0.4' deep, CS35-020 at 0.0 pCi/g 0.3' deep, CV39-023 at 0.0 pCi/g 0.6' deep, CV39-024 at 1.05 pCi/g 0.9' deep, CS34-010 at 3.17 pCi/g 0.2' deep, CS34-011 at 0.0 pCi/g 0.3' deep, CR35-005 at 5.4 pCi/g 0.2' deep, CR35-004 at 2.04 pCi/g 0.3' deep, CR35-007 at 2.06 pCi/g 0.2' deep, CS35-011 at 4.37 pCi/g 0.1' deep and CX38-004 at 4.24 pCi/g 0.1' deep.
- Shipped 20 offsite and received 4 empties.

903 Lip Area activities planned for Wednesday 5-26-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, May 26, 2004 5:16 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/26/04

903 Lip Area activities accomplished for Wednesday 5-26-04.

- Continued excavation activities today at the Outer Lip area filling 8 intermodals.
- High winds and a shortage of intermodals created tough times for loading today.
- Took 4 confirmation samples, one passed, three failed. CV38-012 at 6.7 pCi/g 0.2' deep passed. Those that failed and will be re-excavated are CR36-049 at 22.6 pCi/g 0.2' deep, CV38-007 at 18.1 pCi/g 0.2' deep and CV38-008 at 13.4 pCi/g 0.1' deep.
- Shipped 22 offsite and received 13 empties.

903 Lip Area activities planned for Thursday 5-27-04

- Continue excavation activities on the Outer Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, May 27, 2004 5:01 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 5/27/04

903 Lip Area activities accomplished for Thursday 5-27-04.

- Continued excavation activities today at the Outer Lip area filling 6 intermodals.
- A shortage of intermodals are creating tough times for loading.
- Took 5 confirmation samples, one passed, four failed. CU37-014 at 3.92 pCi/g (target) 0.3' deep and CU37-014 at 4.39 pCi/g (F.D.) 0.3' deep passed. Those that failed and will be re-excavated are CU38-007 at 8.57 pCi/g 0.4' deep, CU38-012 at 13.5 pCi/g 0.5' deep, CT37-008 at 13.5 pCi/g 0.2' deep and CV40-016 at 38.1 pCi/g 0.1' deep.
- Shipped 22 offsite and received 3 empties.

903 Lip Area activities planned for Tuesday 6-01-04

- No work is scheduled for Friday or Monday (holiday).
- Continue excavation activities in the Outer Lip Area pending intermodals.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, June 01, 2004 5:15 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/01/04

903 Lip Area activities accomplished for Tuesday 6-01-04.

- Continued excavation activities today at the Outer Lip area on the outside boundaries of the Kriging area filling 10 intermodals.
- A shortage of intermodals are creating tough times for loading.
- Took 1 confirmation sample. CX40-013 at 5.04 pCi/g 0.1' deep.
- Shipped 25 offsite and received 5 empties.

903 Lip Area activities planned for Wednesday 6-02-04

- Continue excavation activities in the Outer Lip Area pending intermodals.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 02, 2004 7:24 AM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: RE: 903 Lip Area Status Report 6/01/04

My apologies to everyone, we received 35 empties yesterday not 5!

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

-----Original Message-----

From: Lindsay, Thomas
Sent: Tuesday, June 01, 2004 5:15 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/01/04

903 Lip Area activities accomplished for Tuesday 6-01-04.

- Continued excavation activities today at the Outer Lip area on the outside boundaries of the Kriging area filling 10 intermodals.
- A shortage of intermodals are creating tough times for loading.
- Took 1 confirmation sample. CX40-013 at 5.04 pCi/g 0.1' deep.
- Shipped 25 offsite and received 35 empties.

903 Lip Area activities planned for Wednesday 6-02-04

- Continue excavation activities in the Outer Lip Area pending intermodals.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 02, 2004 4:46 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/02/04

903 Lip Area activities accomplished for Wednesday 6-02-04.

- Continued excavation activities today at the Outer Lip area filling 19 intermodals.
- Took 6 confirmation samples, 1 failed. CV38-012 at 0.0 pCi/g 0.6' deep, CV38-008 at 0.0 pCi/g 0.9' deep, CV39-013 at 1.1 pCi/g 0.8' deep, CV39-017 at 0.0 pCi/g 0.6' deep, CV39-018 at 3.63 pCi/g 0.5' deep. CV38-007 at 10.0 pCi/g 0.4' deep failed and will be over-excavated.
- Shipped 25 offsite and received 4 empties.

903 Lip Area activities planned for Thursday 6-03-04

- Continue excavation activities in the Outer Lip Area pending intermodals.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, June 04, 2004 4:01 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/04/04

903 Lip Area activities accomplished for Friday 6-04-04.

- Continued excavation activities today at the Outer Lip area filling 20 intermodals.
- No confirmation samples were take today because lightning shutdown the project in the afternoon. On Monday we will take today's samples.
- Shipped 25 offsite and received 18 empties.

903 Lip Area activities planned for Saturday 6-05-04

- Ship and receive intermodals only.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, June 07, 2004 5:11 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/07/04

903 Lip Area activities accomplished for Saturday and Monday 6-05 and 6-07/04.

- Continued excavation activities today at the Outer Lip area filling 6 intermodals.
- Took 8 confirmation samples, 5 passed, 3 failed. The following passed CS34-006 at 3.6 pCi/g 0.1' deep, CX38-009 at 0.0 pCi/g 0.8' deep, CW38-001 at 6.24 pCi/g 0.1' deep, CU37-013 at 2.67 pCi/g 0.5' deep, CW38-004 at 1.6 pCi/g 0.4' deep. The following failed CW38-009 at 16.3 pCi/g 0.3' deep, CR36-050 at 16.4 pCi/g 0.3' deep and CR36-051 at 11.7 pCi/g 0.3' deep and will be over-excavated.
- Shipped 50 (25 Saturday and 25 today) offsite and received 34 (includes 18 Saturday and 16 today) empties.

903 Lip Area activities planned for Tuesday 6-08-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, June 08, 2004 5:04 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/08/04

903 Lip Area activities accomplished for Tuesday 6/08/04.

- Continued excavation activities today at the Outer Lip area filling 18 intermodals.
- Took 4 confirmation samples, 3 passed, 1 failed. The following passed CU38-011 at 3.98 pCi/g 0.7' deep, CU38-006 at 1.58 pCi/g 0.3' deep, CR35-008 at 2.02 pCi/g 0.5' deep. The following failed CR35-010 at 9.74 pCi/g 0.3' deep and will be over-excavated.
- May manufacturing (an approved Contractor for Intermodal repairs) is onboard and is currently repairing damaged intermodals for reuse.
- Shipped 25 offsite and received 38 empties.

903 Lip Area activities planned for Wednesday 6-09-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 09, 2004 5:21 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status 6/09/04

903 Lip Area activities accomplished for Wednesday 6/09/04.

- Continued excavation activities today at the Outer Lip area filling 19 intermodals.
- Took 7 confirmation samples, 5 passed, 2 failed. The following passed CR35-009 at 0.79 pCi/g 0.7' deep, CR35-012 at 3.02 pCi/g 0.6' deep, CR35-015 at 4.6 pCi/g 0.6' deep, CR35-013 at 0.0 pCi/g 0.5' deep, CR35-016 at 1.85 pCi/g (target), 0.0 pCi/g (F.D.) 0.9' deep. The following failed CR35-006 at 7.0 pCi/g 0.2' deep and CR35-014 at 16.3 pCi/g 0.2' deep and will be over-excavated.
- The project was shut down today at 1400 hours due to site-wide lightning advisory.
- Shipped 25 offsite and received 33 empties.

903 Lip Area activities planned for Thursday 6-10-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, June 10, 2004 5:05 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/10/04

903 Lip Area activities accomplished for Thursday 6/10/04.

- Continued excavation activities today at the Outer Lip area filling 42 intermodals.
- Took 8 confirmation samples, 3 passed, 5 failed. The following passed CQ35-034 at 6.82 pCi/g 0.1' deep, CT37-009 at 1.37 pCi/g 0.9' deep, CT37-008 at 0.0 pCi/g 1.2' deep. The following failed CR35-011 at 8.05 pCi/g 0.3' deep, CT38-022 at 14.3 pCi/g 0.5' deep, CT38-023 at 24.8 pCi/g 0.3' deep, CT38-024 at 24.2 pCi/g 0.3' deep and CT37-013 at 18.2 pCi/g 0.3' deep.
- Shipped 25 offsite and received 8 (6 from E.O.U. and 2 from May Manufacturing) empties.

903 Lip Area activities planned for Friday 6-11-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, June 11, 2004 12:01 PM
To: Castaneda, Norma; Dreith, Gary; Gary Kleeman; Aguilar, Mark; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/11/04

903 Lip Area activities accomplished for Friday 6/11/04.

- No excavation activities were performed today because of high winds. The project shut down at noon today.
- 5 confirmation samples were submitted to the URS laboratory last night due to problems with the field screening gamma spectroscopy unit. Four failed, one passed and CQ35-034 that was submitted on Thursday failed and will be over-excavated again. The results are as follows: The following passed CQ35-035 at 3.91 pCi/g. Those that failed were CT37-010 at 20.3 pCi/g, CT37-014 at 19.6 pCi/g, CT37-015 at 29.2 pCi/g and CT38-025 at 16.5 pCi/g. Sample CQ35-034 was 8.05 pCi/g and will be over-excavated as well.
- Shipped 25 offsite.

903 Lip Area activities planned for Monday 6-14-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, June 14, 2004 8:53 AM
To: Tennant, Shana; Blaser, Brian; Burmeister, Mark; Keating, Michael; Nesta, Stephen; Paschall, James R.; Serreze, Susan; Smith, James; Tuta, Zane; Wiemelt, Karen
Subject: RE: FINAL GAMMA Data on RIN 04F1738 (900-11 OLR) - 06/10/04

Because the Gamma Spectroscopy unit went down last week we submitted most of the remaining samples to the laboratory. As stated below, I sent out an email on Friday to over-excavate those cells that failed the URS laboratory analysis.

Steve/Jeremy/James

Based on the results from URS laboratory last night we need to over-excavate the following cells and resubmit new confirmation samples:

CQ35-034
CT37-010
CT37-014
CT37-015
CT38-025

Thanks!!

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

-----Original Message-----

From: Tennant, Shana
Sent: Friday, June 11, 2004 1:50 PM
To: Blaser, Brian; Burmeister, Mark; Keating, Michael; Lindsay, Thomas; Nesta, Stephen; Paschall, James R.; Ruthven, Mark A.; Smith, James; Tuta, Zane; Wiemelt, Karen
Subject: FINAL GAMMA Data on RIN 04F1738 (900-11 OLR) - 06/10/04

Please see the below attachment for the FINAL Gamma Data on RIN 04F1738. Samples were collected on 06/10/04 from 900-11 OLR.

<< File: 04F1738_Final Gamma 900-11 OLR_06-10-04.pdf >>

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, June 14, 2004 5:04 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Gary Kleeman; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/14/04

903 Lip Area activities accomplished for Monday 6/14/04.

- Continued excavation activities today at the Outer Lip area filling 30 intermodals.
- Took 5 confirmation samples, 3 passed and 2 failed. The following passed CS34-008 at 2.7 pCi/g 0.2' deep, CS34-007 at 2.10 pCi/g 0.4' deep and CT38-025 at 0.94 pCi/g 1.1' deep. Those that failed were CT37-016 at 17.4 pCi/g 0.4' deep and CQ35-034 at 6.71 pCi/g 0.1' deep.
- Shipped 25 offsite and received 32 empties. On Friday the project shipped 25 and received 4 empties.

903 Lip Area activities planned for Tuesday 6-15-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, June 15, 2004 5:01 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Gary Kleeman; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report

903 Lip Area activities accomplished for Tuesday 6/15/04.

- Continued excavation activities today at the Outer Lip area filling 28 intermodals and 1 DRT bag. Today was the first day we loaded a DRT bag (lift liner) at the 903 project.
- Took 4 confirmation samples, 4 passed. The following passed CT37-013 at 0.0 pCi/g 1.1' deep, CT37-014 at 0.0 pCi/g 1.0' deep, CT38-024 at 1.15 pCi/g 1.6' deep and CQ35-034 at 0.0 pCi/g 0.9' deep.
- Shipped 25 offsite and received 46 empties.

903 Lip Area activities planned for Wednesday 6-16-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

291

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 16, 2004 4:17 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Gary Kleeman; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/16/04

903 Lip Area activities accomplished for Wednesday 6/16/04.

- Continued excavation activities today at the Outer Lip area filling 18 intermodals. Weather affected afternoon activities and the project shutdown excavation activities.
- Shipped 25 offsite and received 42 empties.

903 Lip Area activities planned for Thursday 6-17-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- An RIR was written by Rad Operations against the project due to a worker using the incorrect PPE during decon operations. Corrective actions will be implemented which will include additional training.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

292

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, June 17, 2004 5:14 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/17/04

903 Lip Area activities accomplished for Thursday 6/17/04.

- Continued excavation activities today at the Outer Lip area filling 22 intermodals and 1 DRT bag.
- Took 19 confirmation samples, 16 passed, 3 failed. The following passed CR35-006 at 1.77 pCi/g 0.4' deep, CR35-011 at 0.0 pCi/g 1.0' deep, CR36-049 at 0.0 pCi/g 0.9' deep, CR36-050 at 1.24 pCi/g 0.8' deep, CT38-022 at 0.0 pCi/g 1.0' deep, CT38-023 at 0.95 pCi/g 0.9' deep, CW37-004 at 0.0 pCi/g 0.9' deep, CW38-002 at 4.02 pCi/g 0.3' deep, CS35-006 at (3.18 pCi/g target / 5.19 pCi/g F.D.) 0.3' deep, CS36-006 at 4.69 pCi/g 0.5' deep, CT37-010 at 0.0 pCi/g 0.8' deep, CT37-015 at 0.0 pCi/g 1.7' deep, CS35-018 at 1.49 pCi/g 0.6' deep, CT35-015 at 1.1 pCi/g 0.3' deep, CS35-019 at 0.93 pCi/g 0.4' deep and CT35-014 at (1.26 pCi/g target / 4.39 pCi/g F.D.) 0.4' deep. The following failed CR35-010 at 18.1 pCi/g 0.5' deep, CR35-014 at 7.91 pCi/g 0.7' deep and CR36-051 at 7.74 pCi/g 0.5' deep.
- Shipped 25 offsite and received 44 empties.

903 Lip Area activities planned for Friday 6-18-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, June 21, 2004 4:56 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/21/04

903 Lip Area activities accomplished for Monday 6/21/04.

- Continued excavation activities today at the Outer Lip area filling 4 intermodals.
- Shut down at noon today due to the weather.
- Shipped 30 offsite and received 16 empties.

903 Lip Area activities planned for Tuesday 6-22-04

- Continue excavation activities in the Outer Lip Area, probably up to the triangular area east of WSI guard post.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, June 22, 2004 5:05 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.
Subject: 903 Lip Area Status Report 6/22/04

903 Lip Area activities accomplished for Tuesday 6/22/04.

- Continued excavation activities today at the Outer Lip area and in the triangular area west of WSI check gate along central avenue filling 20 intermodals and 1 DRT bag.
- Took 5 confirmation samples, all passed. The following passed CV40-020 at 0.0 pCi/g 0.3' deep, CV40-021 at 0.0 pCi/g 0.3' deep, CV40-022 at 2.15 pCi/g 0.4' deep, CV40-023 at 0.0 pCi/g 0.4' deep, CV40-024 at 0.944 pCi/g 0.2' deep.
- Shipped 30 offsite and received 40 empties.

903 Lip Area activities planned for Wednesday 6-23-04

- Continue excavation activities in the Outer Lip Area and the triangular area along Central Avenue.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

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Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 23, 2004 5:01 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/23/04

903 Lip Area activities accomplished for Wednesday 6/23/04.

- Continued excavation activities today at the Outer Lip area and in the triangular area west of WSI check gate along central avenue filling 38 intermodals and 1 DRT bag.
- Took 7 confirmation samples, 6 passed and 1 failed. The following passed CU40-005 at 0.0 pCi/g 0.6' deep, CU40-013 at 0.0 pCi/g 0.5' deep, CV40-025 at 0.0 pCi/g 0.2' deep, CU40-008 at 1.52 pCi/g 0.6' deep, CR35-010 at 0.0 pCi/g 1.9' deep, CR35-014 at 0.0 pCi/g 1.2' deep. Sample CR36-051 at 17.0 pCi/g 0.7' deep failed and will be over-excavated.
- Shipped 30 offsite and received 15 empties.

903 Lip Area activities planned for Thursday 6-24-04

- Continue excavation activities in the Outer Lip Area and the triangular area along Central Avenue.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- We had an injury today on the 903 project when a worker punctured his hand while removing a camlock fitting of the water hose from the water truck. The cotter pin from the camlock punctured his three sets of gloves. Medical reviewed him and released him with no restrictions. The wound count was negative.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Keating, Michael
Sent: Thursday, June 24, 2004 4:56 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/24/04

903 Lip Area activities accomplished for Wednesday 6/24/04.

- Continued excavation activities today at the Outer Lip area and in the triangular area west of WSI check gate along central avenue filling 32 intermodals and 0 DRT bag.
- Took 7 confirmation samples, 6 passed and 1 failed. The following passed CU40-015, CU40-014, CU40-010, CU40-009, CU40-006, CR36-051. Sample CT40-008 failed and will be over-excavated.
- Shipped 25 offsite and received 32 empties.

903 Lip Area activities planned for Thursday 6/25/04

- Continue excavation activities in the Outer Lip Area and the triangular area along Central Avenue.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- none

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Serreze, Susan

From: Keating, Michael
Sent: Friday, June 25, 2004 4:51 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/25/04

903 Lip Area activities accomplished for Friday 6/25/04.

- Continued excavation activities today at the Outer Lip area and in the triangular area west of WSI check gate along central avenue filling 14 intermodals and 3 DRT bag.
- Took 4 confirmation samples, 4 passed and 0 failed. The following passed CU40-012 at 0.4' - 1.9pCi/g Am, CT40-007 0.7' - 3.23pCi/g Am, CT40-006 at 0.4' - 0.32 pCi/g Am, CU40-0098 at 0.7' - 4.68 pCi/g Am
- Shipped 30 offsite and received 17 empties.
- Lightening shutdown in afternoon

903 Lip Area activities planned for Monday 6/28/04

- Continue excavation activities in the Outer Lip Area
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- none

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

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Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, June 28, 2004 5:16 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna; Duncan, Karen
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/28/04

903 Lip Area activities accomplished for Monday 6/28/04.

- Continued excavation activities today at the Outer Lip area filling 16 intermodals and 2 DRT bags. The excessive rain over the weekend hampered conditions for excavating until afternoon.
- On Saturday, 6/26/04 the project filled 19 intermodals.
- Took 8 confirmation samples, 8 passed and 0 failed. The following passed CU40-007 at 0.3' - 1.0 pCi/g Am, CU40-011 at 0.6' - 5.33pCi/g Am and CU40-016 at 0.5' - 0.0 pCi/g Am, CS35-009 at 0.5' - 0.81 pCi/g Am, CS35-014 at 0.5' - 2.95pCi/g Am, CS35-015 at 1.2' - 4.01 pCi/g (Target) 1.97 pCi/g (F.D.), CW38-005 at 0.5' - 1.6 pCi/g and CW38-009 at 1.6' - 0.0 pCi/g Am
- Shipped 26 offsite and received 6 empties.

903 Lip Area activities planned for Tuesday 6/29/04

- Continue excavation activities in the Outer Lip Area
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- none

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 30, 2004 7:33 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/29/04

903 Lip Area activities accomplished for Tuesday 6/29/04.

- Continued excavation activities today at the Outer Lip area filling 36 intermodals.
- Took 8 confirmation samples, 7 passed and 1 failed. The following passed CS35-007 at 0.5' - 1.55 pCi/g Am, CS35-008 at 0.8' - 4.15pCi/g Am and CS36-009 at 0.5' - 1.87 pCi/g Am, CS35-013 at 0.5' - 1.77 pCi/g Am, CS35-017 at 0.8' - 1.17pCi/g Am, CV38-006 at 0.2' - 4.83 pCi/g, CW38-014 at 0.7' - 0.0 pCi/g. Sample CS36-005 at 0.3' - 14.2 pCi/g Am failed and will be over-excavated
- Shipped 30 offsite and received 47 empties.

903 Lip Area activities planned for Wednesday 6/30/04

- Continue excavation activities in the Outer Lip Area
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- An equipment failure occurred on an end dump when the trunion failed, (broke), creating the hydraulic ram to break and loose hydraulic fluid, the trailer fell over on it's side. A fact finding meeting was held in the afternoon.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, June 30, 2004 5:15 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 6/30/04

903 Lip Area activities accomplished for Wednesday 6/30/04.

- Continued excavation activities today at the Outer Lip area filling 30 intermodals and 2 DRT bags.
- Took 9 confirmation samples, 8 passed and 1 failed. The following passed CV38-009 at 0.8' - 2.8 pCi/g Am, CV38-013 at 0.3' - 6.25pCi/g Am, CW37-009 at 0.4' - 3.49 pCi/g Am, CW38-006 at 0.1' - 0.98 pCi/g Am, CW38-010 at 0.3' - 1.41pCi/g Am, CU38-008 at 0.5' - 0.0 pCi/g, CW37-008 at 0.3' - 1.5 pCi/g and CV37-001 at 0.5' - 0.0 pCi/g. Sample CV38-014 at 0.4' - 3.38 pCi/g (target) 15.4 pCi/g (F.D.) failed and will be over-excavated
- Shipped 30 offsite and received 3 empties.
- Materials have arrived onsite (roadbase/recycled asphalt/geotextile fabric and equipment) for the work this weekend on removing portions of Central Avenue south of the triangle area.

903 Lip Area activities planned for Thursday 7/01/04

- Continue excavation activities in the Outer Lip Area
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None - the trailer was uprighted today and hauled offsite for repair.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, July 01, 2004 5:02 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/01/04

903 Lip Area activities accomplished for Thursday 7/01/04.

- Continued excavation activities today at the Outer Lip area filling 25 intermodals and 4 DRT bags.
- Took 3 confirmation samples. The following passed CV37-002 at 1.7' - 0.0 pCi/g Am, CV37-005 at 0.6' - 0.73pCi/g Am, CV37-006 at 0.1' - 0.77 pCi/g Am.
- Shipped 30 offsite and received 38 empties.
- Loaded up today the second 9 pack of 4 x 4 boxes that will be shipped to NTS.

903 Lip Area activities planned for Friday 7/02/04

- Continue excavation activities in the Outer Lip Area, specifically Central Avenue, removing approximately 360 LF of roadway.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, July 02, 2004 6:10 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/02/04

903 Lip Area activities accomplished for Friday 7/02/04.

- Continued excavation activities today at the Outer Lip area, removing approximately 360 LF of roadway at Central Avenue. Shipped offsite 355 tons of asphalt. Filled 39 intermodals plus an additional 19 that will require to be topped off on Tuesday of next week for a total of 58.
- Took 14 confirmation samples, 13 passed and 1 failed. The following passed CV40-028 at 0.9' - 1.11 pCi/g Am, CV40-017 at 0.5' - 0.0 pCi/g Am, CV40-027 at 1.3' - 0.0 pCi/g Am, CV40-018 at 0.4' - 0.0 pCi/g Am, CW40-018 at 0.4' - 0.0 pCi/g Am, CV40-019 at 0.3' - 0.0 pCi/g Am, CV40-026 at 1.3' - 0.0 pCi/g Am, CW40-019 at 0.5' - 1.67pCi/g Am, CU40-017 at 1.1' - 0.0 pCi/g Am, CU40-018 at 1.0' - 0.0 pCi/g Am, CU39-023 at 0.4' - 0.0 pCi/g Am, CU39-024 at 0.2' - 0.97 pCi/g Am, CU40-004 at 0.4' - 0.0 pCi/g Am. Sample CV40-016 at 0.3' - 11.5 pCi/g Am failed and will be over-excavated next week.
- Shipped 30 offsite and received 34 empties.

903 Lip Area activities planned for Saturday 7/03/04

- Rebuild Central Avenue road.

903 Lip Project Reportable Issues:

- A first aid incident occurred when a worker was scratched by barbed wire.

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Saturday, July 03, 2004 9:28 AM
To: Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen
Cc: Castaneda, Norma; Wiemelt, Karen; Keating, Michael; Primrose, Annette; Serreze, Susan; Blumberg, Jackie A.; Blaser, Brian
Subject: 903 Project - Friday's Confirmation Samples

Everyone:

I have attached a map with coordinates which were additional confirmation samples taken on Friday. These will be added to our existing map. If you were looking for them on the existing map you would not have found them. RADMS will issue a revised map 903 Outer Lip Confirmation Map for the additional 5 confirmation samples. Thanks!!!



earsample.pdf (6 KB)



earextra.xls (16 KB)



fig2_outerlip_1157.pdf (83 KB)...

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

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Additional Samples



72004900-11/900-11spsinterim

June 2004

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SCENARIOID	LOCATIONID	LOCATION	TYPE	NAME	DESCRIPTIO	EASTING	NORTHING
1190	1	CU40-017	Bias	East Access Road	Additional samples in east access road (AI	2086871.418	749378.772
1190	2	CU40-018	Bias	East Access Road	Additional samples in east access road (AI	2086916.552	749393.817
1190	3	CV40-026	Bias	East Access Road	Additional samples in east access road (AI	2086964.597	749413.714
1190	4	CV40-027	Bias	East Access Road	Additional samples in east access road (AI	2087006.334	749429.730
1190	5	CV40-028	Bias	East Access Road	Additional samples in east access road (AI	2087062.144	749455.451

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Serreze, Susan

From: Lindsay, Thomas
Sent: Saturday, July 03, 2004 4:25 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/03/04

903 Lip Area activities accomplished for Saturday 7/03/04.

- Rebuilt Central Avenue road, 360LF of road base and recycled asphalt.
- Shipped 0 offsite and received 0 empties.

903 Lip Area activities planned for Tuesday 7/06/04

- No work is scheduled for Monday 7/05/04 - Holiday.
- Continue excavation activities at the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Keating, Michael
Sent: Friday, July 09, 2004 7:34 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/08/04

903 Lip Area activities accomplished for Thursday 7/08/04.

- Continued excavation activities today at the Outer Lip area filling 23 intermodals and 2 DRT bags.
- Took 8 confirmation samples. The following passed CV38-002 at 0.5' = 2.68 pCi/g, CV38-003 at 1.0' = 0.594 pCi/g, CV38-004 at 1.3' = 0.818 pCi/g, CV38-016 at 0.4' = 0.824 pCi/g, CS36-005A at 1.2' = 0.343 pCi/g, CT39-016A at 0.4' = 0.427 pCi/g, CU39-025A at 0.3' = 2.3 pCi/g
- 1 sample failed: CV38-005 at 0.4' = 11.0 pCi/g (preliminary).
- Shipped 29 offsite and received 39 empties.
- Loaded up today the third 9 pack of 4 x 4 boxes that will be shipped to NTS.

903 Lip Area activities planned for Friday 7/09/04

- Continue excavation activities in the Outer Lip Area
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Serreze, Susan

From: Keating, Michael
Sent: Monday, July 12, 2004 9:26 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/09/04

903 Lip Area activities accomplished for Friday 7/09/04.

- Continued excavation activities today at the Outer Lip area filling 20 intermodals and 2 DRT bags.
- Took 3 confirmation samples. The following passed CV37-004 = 0.0 pCi/g, CV37-003 = 0.0 pCi/g (excavation in wetland area, actual excavation depth being evaluated), CV-014 at 1.6' = 0.0 pCi/g
- Shipped 30 (23 from 903) offsite and received 25 empties.
- Loaded up today the third 9 pack of 4 x 4 boxes that will be shipped to NTS.

903 Lip Area activities planned for Monday 7/12/04

- Continue excavation activities in the Outer Lip Area
- Take confirmation samples.
- Ship and receive intermodals.
- Plan remediation activities to comply with Standing Order 103

903 Lip Project Reportable Issues:

- None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

*"Only those who dare to fail greatly can ever achieve greatly."
-Robert F. Kennedy*

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, July 12, 2004 4:59 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Kapple, Robert; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/12/04

903 Lip Area activities accomplished for Monday 7/12/04.

- Continued excavation activities today at the Outer Lip area filling 22 intermodals and 2 DRT bags.
- Took 4 confirmation samples, 4 passed. The following passed CU37-000 at 0.0 pCi/g 1.1' deep, CU37-001 at 0.0 pCi/g 0.9' deep, CV38-007 at 1.41 pCi/g 0.4' deep and CV37-008 at 0.0 pCi/g 0.8' deep.
- Shipped 30 offsite and received 9 empties.

903 Lip Area activities planned for Tuesday 7-13-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, July 13, 2004 4:21 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/13/04

903 Lip Area activities accomplished for Tuesday 7/13/04.

- Continued excavation activities today at the Outer Lip area filling 27 intermodals and 4 DRT bags.
- Took 6 confirmation samples, 4 passed. The following passed CU38-009 at 3.38 pCi/g 1.2' deep, CU38-010 at 0.0 pCi/g 0.6' deep, CU37-004 at 0.86 pCi/g 0.8' deep CU38-004 at 0.0 pCi/g 2.5' deep. CU37-008 at 12.8 pCi/g 0.2' deep and CU37-005 12.9 pCi/g 0.2' deep failed and will be over-excavated.
- Shipped 30 offsite and received 46 empties.

903 Lip Area activities planned for Wednesday 7-14-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

312

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, July 14, 2004 4:27 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/14/04

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, July 14, 2004 4:50 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/14/04

Sorry about the previous email, it was a slip!!!!!!!

903 Lip Area activities accomplished for Wednesday 7/14/04.

- Continued excavation activities today at the Outer Lip area filling 33 intermodals and 2 DRT bags.
- Took 4 confirmation samples, 4 passed. The following passed CU38-002 at 0.0 pCi/g 1.5' deep, CU38-005 at 0.0 pCi/g 2.8' deep, CU37-000 at 5.38 pCi/g 0.3' deep CU38-003 at 0.0 pCi/g 3.0' deep.
- Shipped 30 offsite and received 38 empties.

903 Lip Area activities planned for Thursday 7-15-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, July 15, 2004 4:44 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/15/04

903 Lip Area activities accomplished for Thursday 7/15/04.

- Continued excavation activities today at the Outer Lip area filling 28 intermodals.
- Took 6 confirmation samples, 4 passed. The following passed CS36-004 at 5.62 pCi/g 0.3' deep, CU37-002 at 0.723 pCi/g 0.9' deep, CS35-012 at 0.0 pCi/g 0.7' deep CS35-016 at 4.31 pCi/g 0.6' deep. Those that failed were CS36-008 at 0.5' deep 18.9 pCi/g and CS36-012 at 0.1' deep 7.36 pCi/g.
- Shipped 30 offsite and received 33 empties.

903 Lip Area activities planned for Friday 7-16-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

315

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, July 16, 2004 4:27 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/16/04

903 Lip Area activities accomplished for Friday 7/16/04.

- Continued excavation activities today at the Outer Lip area filling 35 intermodals.
- Took 6 confirmation samples, 4 passed and 2 failed. The following passed CT35-019 at 1.81 pCi/g 0.3' deep, CT35-024 at 6.02 pCi/g 0.3' deep, CV36-018 at 2.97 pCi/g 0.5' deep CT35-026 at 3.01 pCi/g 0.5' deep. Those that failed were CT35-023 at 0.2' deep 10.6 pCi/g and CT36-016 at 0.4' deep 8.08 pCi/g.
- Installed another 20' long section of storm water piping at the NE corner of 904 pad to improve stormwater runoff at Central Avenue culvert and allow Cast a larger turning radius out to Central Avenue.
- Shipped 30 offsite and received 26 empties.

903 Lip Area activities planned for Monday 7-19-04

- No work will be conducted this weekend due to 881 detonation.
- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

316

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, July 19, 2004 4:17 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/19/04

903 Lip Area activities accomplished for Monday 7/19/04.

- Continued excavation activities today at the Outer Lip area filling 13 intermodals.
- Took 8 confirmation samples, 7 passed and 1 failed. The following passed CS36-008 at 0.0 pCi/g 0.7' deep, CS36-012 at 0.0 pCi/g 0.3' deep, CU36-002 at 0.0 pCi/g 0.6' deep CU36-005 at 0.0 pCi/g 0.5' deep, CU36-011 at 4.17 pCi/g 0.5' deep, CV36-019 at 2.99 pCi/g 0.1' deep, CU37-008 at 3.32 pCi/g 0.7' deep. Those that failed were CU37-009 at 0.6' deep 7.54 pCi/g.
- The project was shut down numerous times today due to lightning/thunderstorms.
- Shipped 30 offsite and received 0 empties.

903 Lip Area activities planned for Tuesday 7-20-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, July 20, 2004 5:14 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/20/04

903 Lip Area activities accomplished for Tuesday 7/20/04.

- Continued excavation activities today at the Outer Lip area filling 23 intermodals.
- Took 13 confirmation samples, 9 passed and 4 failed. The following passed CU37-009 at 0.0 pCi/g 0.7' deep, CU37-010 at 5.46 pCi/g 0.5' deep, CT35-023 at 2.73 pCi/g 0.4' deep, CS36-003 at 0.0 pCi/g 0.9' deep, CS36-007 at 0.0 pCi/g 0.6' deep, CS36-011 at 2.39 pCi/g 0.5' deep, CV38-005 at 5.43 pCi/g 0.6' deep, CS36-015 at 0.0 pCi/g 1.0' deep and CU37-011 at 4.25 pCi/g 0.4' deep. Those that failed were CU37-005 at 0.2' deep 9.13 pCi/g, CS37-043 at 7.29 pCi/g 0.8' deep, CU36-011 at 11.6 pCi/g 0.1' deep and CU37-006 at 0.4' deep.
- The project was shut down again today because of numerous lightning/thunderstorms.
- Shipped 30 offsite and received 39 empties.

903 Lip Area activities planned for Wednesday 7-21-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, July 21, 2004 5:08 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/21/04

903 Lip Area activities accomplished for Wednesday 7/21/04.

- Continued excavation activities today at the Outer Lip area filling 31 intermodals.
- Took 10 confirmation samples, 5 passed and 5 failed. The following passed CS36-004 at 0.0 pCi/g 0.8' deep, CT36-006 at 2.70 pCi/g 0.7' deep, CT36-011 at 5.66 pCi/g 0.2' deep, CU37-005 at 1.51 pCi/g 0.4' deep, CU37-006 at 1.90 pCi/g 0.4' deep. Those that failed were CT36-015 at 0.7' deep 6.43 pCi/g, CT36-017 at 8.14 pCi/g 0.3' deep, CT36-005 at (7.45 pCi/g target and 2.29 pCi/g F.D.) 0.2' deep and CT36-010 at 0.1' deep 16.7 pCi/g.
- Shipped 30 offsite and received 56 empties.

903 Lip Area activities planned for Thursday 7-22-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, July 22, 2004 4:37 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/22/04

903 Lip Area activities accomplished for Thursday 7/22/04.

- Continued excavation activities today at the Outer Lip area filling 18 intermodals.
- Took 7 confirmation samples, 6 passed and 1 failed. The following passed CT36-002 at 3.75 pCi/g 0.2' deep, CT35-022 at 0.0 pCi/g 0.3' deep, CT35-024 at 0.0 pCi/g 0.6' deep, CT35-025 at 1.86 pCi/g 0.4' deep, CU36-009 at 3.23 pCi/g for the target and 3.14 pCi/g for the F.D. 0.4' deep. Those that failed were CU36-013 at 0.3' deep 17.6 pCi/g.
- Continued thunderstorms/lightning affected the project today.
- Shipped 30 offsite and received 34 empties.

903 Lip Area activities planned for Friday 7-23-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Keating, Michael
Sent: Monday, July 26, 2004 7:51 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/23/04

903 Lip Area activities accomplished for Friday 7/23/04.

- Continued excavation activities today at the Outer Lip area filling 12 intermodals.
- Took 12 confirmation samples, 7 passed and 4 failed. The following passed: CU36-010 at 0.0 pCi/g 0.7' deep, CU37-012 at 6.57pCi/g 0.3' deep, CT36-005 at 0.0 pCi/g 0.4' deep (plus duplicate), CT36-010 at 5.96 pCi/g 0.6' deep, CT36-015 at 3.72 pCi/g 0.7' deep, CT36-014 at 1.60 pCi/g 0.8' deep, CS37-043 at 6.38 pCi/g 0.8' deep
- Those that failed were: CT37-004 at 18.7pCi/g 0.2' deep, CT37-007 at 35.8 pCi/g 0.2' deep, CT36-017 at 7.93 pCi/g 0.4' deep, CT36-016 at 11.6 pCi/g 0.2' dee
- Continued thunderstorms/lightning affected the project today.
- Shipped 30 offsite and received 40 empties.

903 Lip Area activities planned for Monday 7-26-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, July 27, 2004 1:50 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/26/04

903 Lip Area activities accomplished for Monday 7/26/04.

- Continued excavation activities today at the Outer Lip area filling 22 intermodals.
- Took 0 confirmation samples today, lightning shut down activities for most of the afternoon.
- Filled another nine pack container today with seven boxes from 903 pad destined for NTS.
- Shipped 29 offsite and received 21 empties.

903 Lip Area activities planned for Tuesday 7-27-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

322

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, July 27, 2004 4:51 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/27/04

903 Lip Area activities accomplished for Tuesday 7/27/04.

- Continued excavation activities today at the Outer Lip area filling 32 intermodals and 1 DRT bag.
- Took 10 confirmation samples, 9 passed and 1 failed. The following passed CT36-007 at 3.48 pCi/g 0.4' deep, CT37-007 at 1.53 pCi/g 0.5' deep, CW37-003 at 0.0 pCi/g 0.6' deep, CW37-006 at 0.0 pCi/g 0.5' deep, CT36-016 at 2.57 pCi/g 0.3' deep, CT36-017 at 0.0 pCi/g 0.9' deep, CW37-007 at 0.0 pCi/g 0.3' deep, CU37-003 at 0.0 pCi/g 0.7' deep and CU37-007 at 0.0 pCi/g 0.7' deep. Those that failed were CT37-004 at 0.7' deep 6.12 pCi/g.
- Shipped 30 offsite and received 41 empties.

903 Lip Area activities planned for Wednesday 7-28-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, July 28, 2004 4:36 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/28/04

903 Lip Area activities accomplished for Wednesday 7/28/04.

- Continued excavation activities today at the Outer Lip area filling 40 intermodals.
- Took 10 confirmation samples, 10 passed. The following passed CT35-010 at 2.49 pCi/g 0.4' deep, CT35-011 at 0.0 pCi/g 0.4' deep, CT35-013 at 1.75 pCi/g 0.4' deep, CT35-017 at 0.783 pCi/g 0.7' deep, CT35-018 at 3.06 pCi/g 0.3' deep, CT35-021 at 3.23 pCi/g 0.2' deep, CT37-004 at 0.0 pCi/g 0.6' deep, CT35-012 at 0.0 pCi/g 0.7' deep, CT35-016 at 1.80 pCi/g 0.5' deep and CT37-001 at 0.0 pCi/g 0.4' deep.
- Shipped 30 offsite and received 24 empties.

903 Lip Area activities planned for Thursday 7-29-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, July 29, 2004 4:56 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/29/04

903 Lip Area activities accomplished for Thursday 7/29/04.

- Continued excavation activities today at the Outer Lip area filling 50 intermodals.
- Took 10 confirmation samples, 10 passed. The following passed CT35-020 at 1.19 pCi/g 0.3' deep, CT36-001 at 3.57 pCi/g 0.3' deep, CT36-004 at 0.0 pCi/g 0.5' deep, CT36-009 at 2.33 pCi/g 0.3' deep, CT36-010 at 1.27 pCi/g 0.8' deep, CT36-013 at 2.11 pCi/g 0.6' deep, CU34-000 at 1.73 pCi/g 0.3' deep, CU35-016 at 0.0 pCi/g 0.5' deep and CU35-017 at 0.0 pCi/g for the target and F.D. 0.6' deep.
- Shipped 30 offsite and received 23 empties.

903 Lip Area activities planned for Friday 7-30-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

325

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, July 30, 2004 3:46 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 7/30/04

903 Lip Area activities accomplished for Friday 7/30/04.

- Continued excavation activities today at the Outer Lip area filling 41 intermodals.
- Took 14 confirmation samples, 12 passed and 2 failed. The following passed CU35-020 at 4.88 pCi/g 0.5' deep, CU35-024 at 2.86 pCi/g 0.4' deep, CU36-001 at 1.80 pCi/g 0.3' deep, CU36-013 at 4.04 pCi/g 0.5' deep, CU36-014 at 0.0 pCi/g 1.1' deep, CU35-018 at 1.46 pCi/g 0.4' deep, CU35-013 at 0.0 pCi/g 0.6' deep, CU35-015 at 0.0 pCi/g 0.4' deep, CU35-019 at 0.0 pCi/g 0.5' deep, CU35-021 at 0.0 pCi/g 0.6' deep, CU35-022 at 0.0 pCi/g 0.6' deep and CU35-023 at 0.0 pCi/g 0.8' deep. The following failed and will be over-excavated CU36-006 at 12.2 pCi/g 0.1' deep and CU36-011 at 9.56 pCi/g 0.2' deep.
- Downposted other sample locations, installed coconut matting and straw wattles.
- Shipped 30 offsite and received 42 empties.

903 Lip Area activities planned for Monday 8-02-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

326

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, August 02, 2004 5:24 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/02/04

903 Lip Area activities accomplished for Monday 8/02/04.

- Continued excavation activities today at the Outer Lip area filling 33 intermodals and 5 DRT bags.
- Took 6 confirmation samples, all passed. The following passed CU35-025 at 0.0 pCi/g 0.7' deep, CU36-003 at 1.86 pCi/g 0.4' deep, CU36-004 at 0.0 pCi/g 0.4' deep, CU36-006 at 0.0 pCi/g 0.6' deep, CU36-011 at 0.0 pCi/g 0.9' deep, CU36-012 at 4.01 pCi/g 0.3' deep.
- Shipped 30 offsite and received 17 empties.

903 Lip Area activities planned for Tuesday 8-03-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, August 03, 2004 5:10 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/03/04

903 Lip Area activities accomplished for Tuesday 8/03/04.

- Continued excavation activities today at the Outer Lip area filling 38 intermodals.
- Took 2 confirmation samples, one passed and one failed. The following passed CU36-015 at 0.0 pCi/g 1.0' deep. The following sample failed and will be over-excavated CU36-016 at 7.67 pCi/g 0.3' deep.
- Neff Rental equipped the JD trackhoe with a Lexan blast shield in preparation for IHSS 140 work this weekend. The surveyors started laying out and staking the exclusion zone for IHSS 140 as well.
- Shipped 30 offsite and received 64 empties (10 from 771 facility).

903 Lip Area activities planned for Wednesday 8-04-04

- Continue excavation activities in the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

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Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, August 04, 2004 4:44 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Cc:
Subject: 903 Lip Area Status Report 8/04/04

903 Lip Area activities accomplished for Wednesday 8/04/04.

- Continued excavation activities today at the Outer Lip and Inner Lip (Outside IHSS 140 boundary) on the old loadout area filling 31 intermodals and 8 DRT bags.
- Took 11 confirmation samples, 10 passed and 1 failed. The following passed CT36-003 at 0.746 pCi/g 0.4' deep, CT36-008 at 0.0 pCi/g 1.5' deep, CT37-002 at 0.0 pCi/g 0.5' deep, CT36-012 at 0.0 pCi/g 0.6' deep, CT37-003 at 2.60 pCi/g 0.7' deep, CT37-005 at 2.70 pCi/g 0.1' deep, CU36-007 at 0.0 pCi/g 0.7' deep, CU36-008 at 2.04 pCi/g 0.5' deep, CU36-016 at 0.0 pCi/g 1.3' deep and CT37-011 at 2.93 pCi/g 0.6' deep. Sample CT37-006 failed at 9.54 pCi/g 0.5' deep and will be over-excavated.
- The surveyors completed lay out of the EZ and will finish tomorrow the outer protective zone staking for IHSS 140. All revised documents were finalized and signed off today, the FIP Addendum, JCO and the Security Plan.
- Shipped 30 offsite and received 9 empties.

903 Lip Area activities planned for Thursday 8-05-04

- Continue excavation activities in the Outer/Inner Lip Areas.
- Take confirmation samples.
- Conduct IVR training for workers on IHSS 140 and SCBA training as well.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, August 05, 2004 5:27 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/05/04

903 Lip Area activities accomplished for Thursday 8/05/04.

- Continued excavation activities today at the Outer Lip and Inner Lip (Outside IHSS 140 boundary) on the old loadout area filling 30 intermodals and 3 DRT bags.
- Took 1 confirmation sample at the Inner Lip Area. The following passed CP36-034 at 0.0 pCi/g 1.6' deep.
- Conducted IVR training for 903 project workers on IHSS 140 and trained both 903 project and 730/Carbon Tetrachloride project personnel on SCBA training as well.
- Shipped 30 offsite and received 37 empties.

903 Lip Area activities planned for Friday 8-06-04

- Complete site setup activities for IHSS 140 project, (includes completion of staking outer perimeter zone, setup of breathing air support for trackhoe, setup of sprinkler line branches to the 11 excavation points at IHSS 140).
- Downpost areas, install coconut matting on remediated areas.
- Continue excavation activities in the Outer/Inner Lip Areas if time allows.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, August 09, 2004 5:04 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/09/04

903 Lip Area activities accomplished for Monday 8/09/04.

- Continued excavation activities today at the Outer Lip and Inner Lip on the old loadout area filling 37 intermodals and 7 DRT bags.
- Took 1 confirmation sample at the Outer Lip Area. The following passed CT37-006 at 0.0 pCi/g 1.4' deep.
- The project took additional soil samples for metals at the strategic eleven locations identified / excavated on Saturday. Saturday was rather uneventful, metallic debris that was found was metal posts, rebar, signage, etc. The project essentially confirmed that no Nickel Carbonyl was buried at IHSS 140.
- Shipped 30 offsite and received 26 empties.

903 Lip Area activities planned for Tuesday 8-10-04

- Continue excavation activities at the Inner / Outer Lip areas.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, August 10, 2004 4:56 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/10/04

903 Lip Area activities accomplished for Tuesday 8/10/04.

- Continued excavation activities today at the Inner Lip filling 26 intermodals and 8 DRT bags.
- Took 4 confirmation sample at the Inner Lip Area. The following passed CP35-016 at 0.0 pCi/g 0.6' deep, CP35-017 at 0.0 pCi/g 0.5' deep, CP35-019 at 0.0 pCi/g 0.7' deep and CP35-020 at 0.0 pCi/g 0.7' deep.
- Filled a nine pack container with IP1 boxes destined for NTS from 903 pad project.
- Shipped 30 offsite and received 40 empties.

903 Lip Area activities planned for Wednesday 8-11-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

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Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, August 11, 2004 4:20 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/11/04

903 Lip Area activities accomplished for Wednesday 8/11/04.

- Continued excavation activities today at the Inner Lip filling 21 intermodals and 13 DRT bags.
- Took 6 confirmation samples at the Inner Lip Area. The following passed CP35-018 at 0.0 pCi/g 1.2' deep, CP36-031 at 0.0 pCi/g 1.8' deep, CP36-032 at 0.0 pCi/g 1.6' deep, CQ35-033 at 1.61 pCi/g 0.7' deep and CP36-030 at 1.65 pCi/g for the target and 2.19 pCi/g for the F.D. at 3.3' deep.
- Shipped 30 offsite and received 33 empties.

903 Lip Area activities planned for Thursday 8-12-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Fill another nine pack with IP1 boxes for NTS.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, August 12, 2004 5:08 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/12/04

903 Lip Area activities accomplished for Thursday 8/12/04.

- Continued excavation activities today at the Inner Lip filling 21 intermodals and 12 DRT bags.
- Took 3 confirmation samples at the Inner Lip Area. The following passed CQ35-029 at 0.0 pCi/g 0.4' deep, CQ35-032 at 0.0 pCi/g 0.8' deep, CQ36-035 at 0.0 pCi/g 1.5' deep.
- Filled a nine pack container of IP1 boxes destined for NTS.
- Shipped 30 offsite and received 27 empties.

903 Lip Area activities planned for Friday 8-13-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Keating, Michael
Sent: Monday, August 16, 2004 5:25 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/16/04

903 Lip Area activities accomplished for Monday 8/16/04.

- Continued excavation activities today at the Inner Lip filling 23 intermodals and 12 DRT bags.
- Took 10 confirmation samples at the Inner Lip Area.
- 5 passed: CP36-029 @ 1.7' = 0.0 pCi/gm, CQ36-040 @ 1.9' = 0.0 pCi/gm, CQ36-041 @ 1.3' = 0.0 pCi/gm, CQ36-046 @ 1.8' = 0.0 pCi/gm, CQ36-047 @ 2.3' = 0.0 pCi/gm
- Five failed: CQ35-027 @ 0.6' = 6.31 pCi/gm, CQ35-030 @ 0.1' = 83.3 pCi/gm, Q36-028 @ 0.1' = 17.3 pCi/gm (Dup failed as well), CR36-042 @ 0.2' = 19.1 pCi/gm
- Shipped 29 offsite and received 36 empties.

903 Lip Area activities planned for Tuesday 8-17-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- A loaded DRT bag frame slip off of the forklift due to a sudden stop. Fact Finding is scheduled for 8/17/04 at 7:30AM at T891C

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

335

Serreze, Susan

From: Keating, Michael
Sent: Tuesday, August 17, 2004 5:34 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/17/04

903 Lip Area activities accomplished for Tuesday 8/17/04.

- Continued excavation activities today at the Inner Lip filling 24 intermodals and 0 DRT bags.
- Took 9 confirmation samples at the Inner Lip Area.
- 4 passed: CR35-033 = 7.21pCi/gm, CR36-032 = 1.22pCi/gm, CR36-033 = 0.0pCi/gm, CR36-034 = 3.32pCi/gm
- Five failed: CQ35-028 = 10.7pCi/gm, CR36-031 = 14.5pCi/gm, CR36-035 = 11.1pCi/gm, CS36-002 = 19.0pCi/gm, CR36-036 = 6.79pCi/gm, CR36-036 = 8.83pCi/gm dup
- Shipped 28 offsite and received 41 empties.

903 Lip Area activities planned for Wednesday 8-18-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- The DRT bag frame was removed from the DRT bag, the bag was rolled to an upright position, inspected, and stored in the DRT bag storage area on the former 903 Pad. A Fact Finding Managers meeting was conducted. Notes will be forthcoming.

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Serreze, Susan

From: Keating, Michael
Sent: Wednesday, August 18, 2004 4:28 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/18/04

903 Lip Area activities accomplished for Wednesday 8/18/04.

- Continued excavation activities today at the Inner Lip filling 24 intermodals and 9 DRT bags.
- Took 5 confirmation samples at the Inner Lip Area.
- 4 passed: CP36-033 at 0.0 pCi/g, CQ36-049 at 0.0 pCi/g, CQ36-051 at 0.0 pCi/g, Cq37-074 at 0.0 pCi/g
- 1 failed: CO37-075 at 9.48 pCi/g
- Shipped 30 offsite and received 19 empties.

903 Lip Area activities planned for Thursday 8-19-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."
-Robert F. Kennedy

Serreze, Susan

From: Keating, Michael
Sent: Friday, August 20, 2004 4:42 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/19/04

903 Lip Area activities accomplished for Thursday 8/19/04.

- Continued excavation activities today at the Inner Lip filling 20 intermodals and 15 DRT bags.
- Took 4 confirmation samples at the Inner Lip Area.
- 2 passed: CU39-015= 0.0 pCi/g at 1.5 feet, CU39-019=0.0 pCi/g at 0.8 feet,
- 2 failed: Grid Cell L11=7.98 pCi/g at 0.4 feet. Grid Cell M11=73.1 pCi/g at 0.8 feet
- Shipped 0 offsite and received X empties.

903 Lip Area activities planned for Friday 8-20-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

338

Serreze, Susan

From: Keating, Michael
Sent: Saturday, August 21, 2004 7:01 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Mewes, Jackie; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/20/04

903 Lip Area activities accomplished for Friday 8/20/04.

- Excavated six cells all passed.
- CQ37-033 (L11) @ 0.1' = 0.0pCi/gm, CQ37-034(M11) @ 1.3' = 0.0pCi/gm,
- CQ35-027 @ 0.5' = 0.0pCi/gm, CQ35-028 @ 0.8' = 0.0pCi/gm, CQ35-030 @ 0.8' = 1.75pCi/gm, CQ35-031 @ 0.5' = 0.0pCi/gm,
- Loaded 25 Intermodals, filled 18 DRT bags
- Installed 600' of straw wattles and 32 bales of straw.
- Received 26 intermodals
- Had shut down early(1620hrs) due to high winds. .

903 Lip Area activities planned for Saturday 8-21-04

- Continue excavation activities at the Inner Lip.
- Fill intermodals and DRT bags
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, August 24, 2004 6:23 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/23/04

903 Lip Area activities accomplished for Monday 8/23/04.

- Continued excavation activities today at the Inner Lip filling 24 intermodals and 23 DRT bags.
- Took 14 confirmation samples at the Inner Lip Area, 10 passed and 4 failed. The following passed CQ37-029 at 0.0 pCi/g 0.8' deep, CQ36-030 at 0.0 pCi/g 0.5' deep, CQ36-045 at 2.49 pCi/g 0.7' deep, CQ36-034 at 2.41 pCi/g 0.5' deep, CQ36-050 at 0.0 pCi/g 1.7' deep, CQ36-029 at 2.01 pCi/g 0.9' deep, CQ36-032 at 2.43 pCi/g 0.8' deep, CQ36-033 at 3.38 pCi/g 0.5' deep, CQ36-038 at 0.0 pCi/g 0.4' deep and CQ35-026 at 0.0 pCi/g 0.2' deep. Those that failed and will be over-excavated are CR37-018 at 28.8 pCi/g 0.7' deep, CR37-019 at 25.6 pCi/g 0.7' deep, CS37-015 at 31.7 pCi/g 0.7' deep and CQ36-039 at 10.5 pCi/g 0.4' deep
- Shipped 28 offsite and received 22 empties.

903 Lip Area activities planned for Tuesday 8-24-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, August 24, 2004 5:28 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/24/04

903 Lip Area activities accomplished for Tuesday 8/24/04.

- Continued excavation activities today at the Inner Lip filling 17 intermodals and 24 DRT bags.
- Took 9 confirmation samples at the Inner Lip Area, all passed. The following passed CR36-035 at 4.7 pCi/g 0.6' deep, CR36-036 at 0.77 pCi/g 0.5' deep, CQ36-027 at 0.0 pCi/g 1.0' deep, CQ37-075 at 0.0 pCi/g 0.9' deep, CQ36-028 at (2.22 pCi/g - target 1.05 pCi/g - F.D.) 0.4' deep, CQ36-036 at 0.0 pCi/g 0.5' deep, CQ36-037 at 3.51 pCi/g 0.5' deep, CQ36-039 at 0.0 pCi/g 1.0' deep and CR36-042 at 0.0 pCi/g for the target and F.D. at 0.9' deep.
- Shipped 24 offsite and received 53 empties.

903 Lip Area activities planned for Wednesday 8-25-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, August 25, 2004 5:49 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/25/04

903 Lip Area activities accomplished for Wednesday 8/25/04.

- Continued excavation activities today at the Inner Lip filling 34 intermodals and 20 DRT bags.
- Took 15 confirmation samples at the Inner Lip Area, 10 passed and 5 failed. The following passed CQ36-043 at 0.0 pCi/g 0.5' deep, CQ36-044 at 0.0 pCi/g 5.0' deep, CQ36-048 at 5.53 pCi/g 0.5' deep, CQ37-070 at 3.25 pCi/g 0.5' deep, CQ37-071 at 1.30 pCi/g 1.0' deep, CQ37-072 at 0.0 pCi/g 1.0' deep, CR36-046 at 0.0 pCi/g 0.5' deep, CR36-048 at 0.0 pCi/g 0.5' deep, CR37-067 (1.87 pCi/g - target 4.23 pCi/g - F.D.) 0.5' deep and CR37-026 at 1.24 pCi/g 0.5' deep. The samples that failed and will be over-excavated are CQ36-031 at 29.3 pCi/g 0.5' deep, CQ37-073 at 10.4 pCi/g 0.5' deep, CR37-024 at 8.78 pCi/g 0.5' deep CR37-025 at 8.84 pCi/g 0.5' deep and CR37-023 at (33.7 pCi/g - target 0.73 pCi/g - F.D.) 0.5' deep.
- Shipped 28 offsite and received 13 empties.

903 Lip Area activities planned for Thursday 8-26-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, August 26, 2004 5:31 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/26/04

903 Lip Area activities accomplished for Thursday 8/26/04.

- Continued excavation activities today at the Inner Lip filling 23 intermodals and 17 DRT bags.
- Took 8 confirmation samples at the Inner Lip Area, 7 passed and 1 failed. The following passed CQ36-031 at 0.71 pCi/g 1.0' deep, CQ37-073 at 0.0 pCi/g 1.5' deep, CR36-041 at 0.0 pCi/g 0.5' deep, CR37-023 at (0.0 pCi/g - target /F.D.) 1.5' deep, CR37-024 at 0.0 pCi/g 1.5' deep, CR37-025 at 0.0 pCi/g 1.5' deep, CR37-027 at 2.51 pCi/g 1.5' deep. The sample that failed and will be over-excavated is CS37-018 at 7.61 pCi/g 1.5' deep.
- Shipped 28 offsite and received 51 empties.

903 Lip Area activities planned for Friday 8-27-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

343

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, August 27, 2004 1:57 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; 'mkeating@ch2m.com'; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/27/04

903 Lip Area activities accomplished for Friday 8/27/04.

- Continued excavation activities today at the Inner Lip filling 10 intermodals and 13 DRT bags.
- The rain played havoc on today's activities, most of the crew was let go today at noon.
- Took 8 confirmation samples at the Inner Lip Area, 3 passed and 5 failed. The following passed CR36-045 at 4.12 pCi/g 0.5' deep, CR37-065 at 0.0 pCi/g 0.5' deep, CR37-066 at 0.0 pCi/g 0.5' deep. Those that failed were CR36-039 at 23.6 pCi/g 0.5' deep, CR36-043 at 14.2 pCi/g 0.5' deep, CR36-040 at 17.7 pCi/g 0.5' deep, CR36-044 at 7.94 pCi/g 0.5' deep and CR36-047 at 42.7 pCi/g 0.5' deep.
- Shipped 16 offsite and received 2 empties (Not ours and will be shipped back to E.O.U.). The remainder of today's shipment will go out on Monday.

903 Lip Area activities planned for Saturday 8-28-04

- Continue excavation activities at the Inner Lip.
- Take confirmation samples.
- No shipping/receiving activities planned.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

344

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, August 30, 2004 6:00 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; 'mkeating@ch2m.com'; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/30/04

903 Lip Area activities accomplished for Monday 8/30/04.

- Continued excavation activities today at the Inner and Outer Lip filling 55 DRT bags.
- Took 8 confirmation samples at the Inner and Outer Lip Areas, 7 passed and 1 failed. The following passed CS36-002 at 0.0 pCi/g 1.8' deep, CR36-031 at 3.63 pCi/g 0.5' deep, CR36-037 at 0.0 pCi/g 0.5' deep, CR37-064 at 0.0 pCi/g 0.5' deep, CS37-041 at 3.27 pCi/g 0.5' deep, CU39-012 at 1.5 pCi/g 1.0' deep, CV39-014 at 0.0 pCi/g 0.2' deep. The sample that failed was CS37-045 at 15.0 pCi/g 0.9' deep.
- The excavation and sampling activities today complete the 903 Inner Lip Area, the remaining excavation activities fall under the Outer Lip.
- Shipped today's load and the remainder of Friday's shipment, a total of 43 and received 24 empties.

903 Lip Area activities planned for Tuesday 8-31-04

- Continue excavation activities at the Outer Lip.
- Take confirmation samples.
- Continue shipping/receiving activities.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

345

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, August 31, 2004 6:50 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; 'mkeating@ch2m.com'; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 8/31/04

903 Lip Area activities accomplished for Tuesday 8/31/04.

- Continued excavation activities today at the Outer Lip filling 40 DRT bags.
- Took 7 confirmation samples at the Outer Lip Area, 6 passed and 1 failed. The following passed CS37-044 at 5.55 pCi/g 0.4' deep, CS37-045 at 0.0 pCi/g 1.3' deep, CT37-012 at 0.0 pCi/g 0.5' deep, CU38-013 at 1.7 pCi/g 0.2' deep, CU39-016 at 1.02 pCi/g 0.5' deep, CU39-013 at 5.05 pCi/g 0.4' deep. The sample that failed was CS37-048 at 17.5 pCi/g 0.1' deep.
- Shipped 23 and received 24 empties.

903 Lip Area activities planned for Wednesday 9-01-04

- Continue excavation activities at the Outer Lip.
- Take confirmation samples.
- Continue shipping/receiving activities.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, September 01, 2004 5:51 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; 'mkeating@ch2m.com'; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/01/04

903 Lip Area activities accomplished for Wednesday 9/01/04.

- Continued excavation activities today at the Outer Lip filling 42 DRT bags and 13 intermodals.
- Took 4 confirmation samples at the Outer Lip Area, 4 passed. The following passed CS37-048 at 1.76 pCi/g 0.9' deep, CS37-049 at 0.0 pCi/g 1.0' deep, CU39-020 at 1.85 pCi/g 1.0' deep, CS37-051 at 0.0 pCi/g 2.2' deep.
- Shipped 28 and received 14 empties.

903 Lip Area activities planned for Thursday 9-02-04

- Continue excavation activities at the Outer Lip.
- Take confirmation samples.
- Continue shipping/receiving activities.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, September 02, 2004 5:57 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; 'mkeating@ch2m.com'; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/02/04

903 Lip Area activities accomplished for Thursday 9/02/04.

- Continued excavation activities today at the Outer Lip filling 36 DRT bags and 11 intermodals.
- Took 6 confirmation samples at the Outer Lip Area, 6 passed. The following passed CS38-062 at 0.0 pCi/g 1.2' deep, CT38-029 at 5.17 pCi/g 0.6' deep, CU38-014 at (0.0 pCi/g - target & F.D.) 0.2' deep, CU39-014 at 0.0 pCi/g 1.3' deep, CU39-017 at 1.78 pCi/g 0.8' deep and CU39-021 at 0.0 pCi/g 0.7' deep.
- Shipped 28 and received 13 empties.

903 Lip Area activities planned for Friday 9-03-04

- RCT's will perform surveys on intermodals.
- Install coconut matting.
- No excavation activities are planned or shipping/receiving.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

348

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, September 03, 2004 1:36 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; 'mkeating@ch2m.com'; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/03/04

903 Lip Area activities accomplished for Friday 9/03/04.

- No excavation activities were performed today.
- RCT's surveyed intermodals.
- Placed coconut matting on the remainder of the Inner Lip Area.

903 Lip Area activities planned for Tuesday 9-07-04

- Continue excavation activities at the Outer Lip Area.
- Take confirmation samples.
- Continue shipping/receiving intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

349

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, September 07, 2004 6:09 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/07/04

903 Lip Area activities accomplished for Tuesday 9/07/04.

- Continued excavation activities today at the Outer Lip filling 36 DRT bags and 11 intermodals.
- Took 4 confirmation samples at the Outer Lip Area, 3 passed, 1 failed. The following passed CS38-064 at 0.0 pCi/g 0.4' deep, CU38-015 at 2.49 pCi/g 0.1' deep, CU39-022 at 1.61 pCi/g 1.0' deep. The following sample failed and will be over-excavated CU39-018 at 12.3 pCi/g 0.1' deep.
- Started decon activities on one of the excavators.
- Shipped 23 and received 22 empties.

903 Lip Area activities planned for Wednesday 9-08-04

- Continue excavation activities at the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Other Activities:

- A Management Assessment Review (MAR) will be conducted Thursday for Bowman's Pond remediation. Work control documents are approved for this project.
- Site preparation activities for temporary trailers are complete, except for electrical power, at B Ponds remediation, see photos below of B1, B2 and B3 ponds.



DSC01150.JPG
(917 KB)



DSC01138.JPG
(903 KB)



DSC01139.JPG
(924 KB)

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

350

Serreze, Susan

From: Lindsay, Thomas
Sent: Wednesday, September 08, 2004 6:13 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/08/04

903 Lip Area activities accomplished for Wednesday 9/08/04.

- Continued excavation activities today at the Outer Lip filling 36 DRT bags and 6 intermodals.
- Took 3 confirmation samples at the Outer Lip Area, all 3 passed. The following passed CU38-017 at 3.04 pCi/g 0.4' deep, CU39-018 at 0.0 pCi/g 0.8' deep and CT38-028 at 4.01 pCi/g 0.6' deep.
- The large elevated dust suppression tank has been removed from the project and will be free released offsite back to the Vendor.
- Shipped 26 and received 11 empties.

903 Lip Area activities planned for Thursday 9-09-04

- Continue excavation activities at the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

351

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, September 09, 2004 5:47 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/09/04

903 Lip Area activities accomplished for Thursday 9/09/04.

- Continued excavation activities today at the Outer Lip filling 9 DRT bags and 23 intermodals.
- Took 6 confirmation samples at the Outer Lip Area, 3 passed and 3 failed. The following passed CT39-012 at 0.0 pCi/g 0.5' deep, CT38-027 at 0.0 pCi/g 0.5' deep and CU38-016 at 5.06 pCi/g 0.3' deep. Those that failed and will be over-excavated are CT38-026 at 6.09 pCi/g 0.9' deep, CT39-010 at 6.10 pCi/g, and CU38-018 at 7.46 pCi/g.
- Shipped 23 and received 42 empties.

903 Lip Area activities planned for Friday 9-10-04

- Continue excavation activities at the Outer Lip Area.
- Take confirmation samples.
- Ship and receive intermodals.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Friday, September 10, 2004 6:06 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/10/04

903 Lip Area activities accomplished for Friday 9/10/04.

- Continued excavation activities today at the Outer Lip filling 27 intermodals.
- Took 8 confirmation samples at the Outer Lip Area, all passed. The following passed CT38-026 at 0.0 pCi/g 1.2' deep, CT38-030 at 4.76 pCi/g 0.7' deep, CT39-010 at 2.0 pCi/g 0.9' deep, CT39-011 at 2.0 pCi/g 0.6' deep, CT39-017 at 0.0 pCi/g 0.5' deep, CU38-018 at 0.0 pCi/g 1.1' deep, CT39-013 at 5.54 pCi/g 0.4' deep and CT38-031 at 1.71 pCi/g - target 2.07 pCi/g - F.D. 0.1' deep.
- Deconned and released one water truck and one forklift out of the CA.
- Shipped 32 and received 7 empties.

903 Lip Area activities planned for Saturday 9-11-04

- Expect to complete excavation activities at the Outer Lip Area.
- Take confirmation samples.

903 Lip Project Reportable Issues:

- None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

353

Serreze, Susan

From: Keating, Michael
Sent: Monday, September 13, 2004 8:25 AM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/11/04

903 Lip Area activities accomplished for Saturday 9/11/04.

- Continued excavation activities today at the Outer Lip filling 56 intermodals.
- Took 6 confirmation samples at the Outer Lip Area, all passed. The following passed CT39-018 at 0.0 pCi/g 0.5' deep, CT38-034 at 4.13 pCi/g 0.8' deep, CT39-014 at 0.0 pCi/g 0.7' deep, CT38-032 at 2.16 pCi/g 0.6' deep, CT38-035 at 0.0 pCi/g 1.0' deep, CT38-035(Dup) at 0.0 pCi/g 1.24' deep
- 903 Lip excavation is complete
- Deconned and released loader and 2 scales out of the CA.
- Shipped 0 and received 0 empties.

903 Lip Area activities planned for Monday 9-13-04

- Demobilization equipment and materials
- Install erosion mat

903 Lip Project Reportable Issues:

None

Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: michael.keating@rfets.gov

"Only those who dare to fail greatly can ever achieve greatly."

-Robert F. Kennedy

354

Serreze, Susan

From: Lindsay, Thomas
Sent: Monday, September 13, 2004 5:12 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/13/04

903 Lip Area activities accomplished for Monday 9/13/04.

- As Mike Keating reported on Saturday, the 903 Lip Area is complete, unless otherwise directed, no additional status reports will be generated until the Firing Range / Outer Lip Hot Spots are remediated in the future.
- The project is deconning the last piece of equipment from the CA.
- Coconut matting was placed on the downposted areas.

903 Lip Area activities planned for Tuesday 9-14-04 through the week

- Complete demobilization of equipment and materials

903 Lip Project Reportable Issues:

None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

Serreze, Susan

From: Lindsay, Thomas
Sent: Tuesday, September 28, 2004 5:23 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 9/28/04 (Hot Spots / Firing Range)

903 Lip Area activities accomplished for Tuesday 9/28/04.

- The IM/IRA Decision Document was approved and 903 project is finishing outstanding work identified under the Decision Document. The project excavated three of the eight hot spots in the Outer Lip Area filling 3 intermodals.
- Three confirmation samples were taken and all passed. CY40-013 at 0.6' deep 0.0 pCi/g, CY40-014 at 0.3' deep (0.0 pCi/g - target, 1.38 pCi/g - F.D.) and CY40-015 at 0.3' deep 1.01 pCi/g.
- I will have Brian Blaser update the map for these new locations.

903 Lip Area activities planned for Wednesday 9-29-04 through the week

- Continue remediation of the remaining hot spots in the Outer Lip area.

903 Lip Project Reportable Issues:

None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

356

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, September 30, 2004 4:54 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.
Subject: 903 Lip Area Status Reprt 9/30/04

903 Lip Area activities accomplished for Thursday 9/30/04.

- The project continued laying out erosion blanket over the 903 Pad site.
- Took one confirmation sample today, CO35-001 at 0.9' deep 0.0 pCi/g.
- Removed asphalt from the Firing Range area.

903 Lip Area activities planned for Monday 10-04-04 through the week

- Continue remediation of the remaining hot spots in the Outer Lip area.

903 Lip Project Reportable Issues:

None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

357

Serreze, Susan

From: Lindsay, Thomas
Sent: Thursday, October 07, 2004 5:26 PM
To: Castaneda, Norma; Dreith, Gary; Aguilar, Mark; Larry Kimmel; Spreng, Carl; Ainscough, Harlen; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Mahoney, Scott; Nesta, Stephen; Horne, Alan; Blaser, Brian; Serreze, Susan; Mayo, Donna
Cc: Burmeister, Mark; McQueary, Steven; Jaramillo, Jeremy R.; Pearson, Chris M.; Lindsay, Thomas
Subject: 903 Lip Area Status Report 10/07/04

903 Lip Area activities accomplished through Thursday 10/07/04.

- The remaining hot spots at the Outer Lip Area are complete that were identified under the IM/IRA Decison Document.
- The following confirmation samples were taken and all passed. CK33-000 at 0.2' deep 0.0 pCi/g, CK33-001 at 0.1' deep 0.0 pCi/g, CQ35-040 at 0.6' deep 0.0 pCi/g, DB37-004 at 0.5' deep 0.0 pCi/g, CV36-024 at 0.2' deep 0.0 pCi/g and CO35-001 at 0.9' deep 0.0 pCi/g,
- The project is currently working with the regulators on the resolution of the Firing Range remediation afterwhich Group 900-11 [(IHSS 112) 903 Pad, (IHSS 155/140) 903 Inner / Outer Lip, (PAC SE-1602) Firing Range,] will be completed.

903 Lip Project Reportable Issues:

None

Thomas M. Lindsay
RISS/ER
T-124A
X5705
cell 994-2724
radio #3757

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COMPLETE DATA SET COMPACT DISC

ACCELERATED ACTION DATA

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DISK NOT INCLUDED

Preliminary Review Draft for Interagency Discussion/Not Issued for Public Comment.

Figure 8
IHSS 155 Confirmation
Sampling Locations
and Results

KEY

- Confirmation location below WRW action level
- Dirt road
- IHSS

DRAFT



Scale = 1: 1150

150 0 150 Feet

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER HILL COMPANY

File: W:\Projects\FY2005\903 Lip Area Closeout\903-Lip_Pu_110204.apr

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